THE CHEMICAL SENSITIVITY OF LAKES TO ACIDIC DEPOSITION AND THE RISK TO FISH POPULATIONS

NORTHERN REGION

ONTARIO FISHERIES ACIDIFICATION REPORT SERIES NO. 86-05

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ONTARIO FISHERIES ACIDIFICATION REPORT SERIES

The Ontario Fisheries Acidification Report Series has been established by the Ontario Ministry of Natural Resources to document findings from studies conducted as part of the Fisheries Acidification Program. These reports are intended to contribute to our knowledge of acidification effects, but they should also be of general interest to fisheries managers.

These reports are basically progress reports. Much of this information will appear later in journal papers.

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1.0 Introduction

In 1982, the Ministry of Natural Resources in cooperation with the Ministry of Environment initiated the Extensive Survey as part of the Fisheries Acidic Precipitation Program. The major objective of this survey was to create a data set which could be used by biologists and resource managers to predict the chemical sensitivity of Ontario's lakes to acidic deposition and the risk to fish populations. Under this program two data sets were created:

1) the Sensitivity Data Set, which contains water chemistry data from about 4500 lakes in the province.

2) the Comprehensive Data Set, which contains data on fish species presence, lake water chemistry and lake morphometry from approximately 3000 lakes in the province.

In this report these two data bases are used to describe the acid sensitivity of lakes sampled in Northern Region and the risk to sport fish species. Reports are also available for the Northwestern, Algonquin, Northern and Northeastern regions.

2.0 Methods

Eighty-three percent of the lake water samples were collected using the tube composite sampling method (MOE 1979) which provides a reasonably accurate measure of whole lake water chemistry (MOE 1979). Samples were collected in the centre of the lake over the period from 1978 to 1984. Since 44.1% and 43.7% of the lakes were sampled in the summer and fall/winter, respectively, very few observations reflect worst case water chemical conditions that may occur in the spring due to snowmelt (Jeffries et al. 1980, Gunn and Keller 1984). pH and total inflection point alkalinity were measured using either field meters accurate to +- 0.01 pH units (MOE 1979) or at federal and provincial laboratories (MOE 1981 and Env. Can. 1979). All other parameters were analyzed at government laboratories. Fish species presence data originated from the Aquatic Habitat Inventory Program (Dodge et al. 1985).

2.1 DISTRIBUTION OF SAMPLES

2.1.1 By District

The number of lakes sampled in each MNR administrative district, included in the Sensitivity Data Set,is shown in Figure 1. The sample size is largest for the Algonquin (N=538; including lakes both inside and outside the Algonquin Park boundary) and Bracebridge (N=413) districts. The sample size is lowest for Red Lake (N=11) and Ignace (N=13) districts.

The Northern Region is moderately sampled (N=627) with the highest percentage of lakes sampled in the Hearst District. No lakes were sampled in the Moosonee District.

2.1.2 By Size Class

The size distribution of sampled lakes for all of Ontario and for the Northern Region, is shown in Figure 2. Of the total number of lakes sampled in Ontario, the highest percentage (48.7%) are 10-99 ha in size. Approximately 33% are 100-999 ha,

and 11.51% and 6.5% are in the size classes (1-9 ha) and (>=1000 ha), respectively. Although only 11.51% of the lakes sampled in all of Ontario are 1-9 ha in size, 68.7% of the total number of lakes in Ontario actually occur in this size class (Cox 1978). There is therefore an under-representation of small lakes in our current data set. As smaller lakes are more vulnerable to acidification than larger lakes (Minns 1981), this report may underestimate the total number of lakes at risk due to acidification stress.

Figure 3 shows the size distribution of lakes sampled, by district, in the Northern Region. In Chapleau, Hearst, Kapuskasing and Timmins districts, the highest percentage of sampled lakes are 10-99 ha in size, while in Cochrane and Gogama districts, the majority of sampled lakes are 100-999 ha in size.

3.0 DEPOSITION

pH is measured on a scale from 1 to 14, with a pH of 7 being neutral. A pH of 1 indicates a very acidic solution while a solution of pH 13 is very alkaline. Clear, unpolluted rain is slightly acidic with a pH of approximately 5.6. The pH scale is logarithmic and therefore a pH of 4 is 10 times more acidic than a pH of 5, and 100 times more acidic than a pH of 6.

The weighted mean annual precipitation pH for each MNR region is illustrated in Figure 4. The pH isopleths were

derived from deposition data reported by the Ministry of Environment (1983), and adjusted southwards to conform to MNR district boundaries according to the method used by Minns (1981). For this report, districts lying south of the pH 4.3 isopleth receive a mean annual precipitation pH of less than 4.3. The Northeastern and Algonquin regions are located mainly in this deposition zone. The Northern, Northwestern and North Central regions are located north of the 4.3 isopleth and therefore receive a mean annual precipitation pH of > 4.3. Deposition data from MOE sampling stations shows that the Northern Region receives a mean annual precipitation pH of between 4.4 and 4.5 (MOE 1983).

The Sudbury deposition zone historically received high loadings of sulphur dioxide due to local smelting operations (Dillon et al. 1980, Keller et al. 1980). In recent years, water quality in many lakes in this area has begun to improve. Increases in pH and total inflection point alkalinity (TIA) and decreases in sulphate (SO4), reflect reduced contaminant deposition from the Sudbury smelting industry (Keller and Pitblado 1984). This zone is approximately delineated by longitudes 80'00 and 81'30 and latitudes 46'00 and 47'30. The MNR districts of Gogama, North Bay, Sudbury, and Temagami are located largely in the Sudbury deposition zone.

4.0 CHEMICAL SENSITIVITY

The type of bedrock and surficial sediment in an area and the neutralizing capacity of surface waters determines its chemical sensitivity to acidic deposition. Highly sensitive areas are located on non-calcareous granite, granite gneiss, orthoquartzite or syenite (Shilts 1981). The Canadian Shield is largely underlain by this non-calcareous bedrock. Areas located on limestone based bedrock are less sensitive to acidic deposition (Shilts 1981).

Figure 5 shows that most of the area in the Northwestern, North Central, Northern, Northeastern and Algonquin regions is highly sensitive to acid precipitation.

The chemical influence of non-calcareous underlying bedrock may be masked by glacially transported calcareous till (overburden) (Shilts 1981). Some lakes northeast of Lake Superior (ie. in Northern Region) are a good example of this. These lakes, despite their underlying acid sensitive bedrock, are alkaline in nature because of the effects of overburden (Shilts 1981). The buffering capacity of the glacial cover depends on its thickness and composition (Shilts 1981). Hence, lakes in close proximity to one another may differ in their chemical sensitivities with respect to acidic deposition. Because of this, large scale mapping (eg. Figure 5) cannot be used to accurately classify lakes in small management zones

(Brousseau et al. 1985).

5.0 TOTAL INFLECTION POINT ALKALINITY

Alkalinity is a measure of the acid neutralizing capacity of water (MOE 1982).

The Ministry of the Environment (1982) has subjectively established the following five sensitivity categories based on total inflection point alkalinity and has described the associated biological effects:

Acidified Lakes (TIA <=0 ueq/l)

These lakes usually have pHs below 5.0. Fish populations will be severely stressed and many species may be lost. Clams, snails and many amphibians may be absent. Algal matts may accumulate in the inshore area.

Extremely Sensitive (0 <TIA <=40 ueq/l)

During snowmelt, pH levels may be severely depressed and aluminum concentrations increased in nearshore areas, creating potentially toxic conditions for aquatic biota.

Moderate Sensitivity (40 <TIA <=200 ueq/l)

During most of the year, the water quality of these lakes is not harmful to fish. In high acid deposition areas, however,

the pH may be depressed in the nearshore areas of certain lakes during snowmelt.

Low Sensitivity (200 <TIA <=500 ueq/l)

These lakes generally experience low pH only under very extreme snowmelt conditions.

Not Sensitive (TIA >500 ueq/l)

These lakes contain enough buffering capacity to neutralize current levels of acidic precipitation.

Based on the above MOE classifications, 73.54% of the lakes sampled in the Northern Region are classified as being not sensitive to acidification (Figure 6). This region has the highest percentage of non sensitive lakes compared to the Northwestern, North Central, Northeastern, and Algonquin regions. Of the remaining lakes sampled, 17.21% and 6.82% have a low or moderate sensitivity to acidification, respectively. Approximately 2% are extremely sensitive to acidic deposition, and only two (0.32%) of the sampled lakes in this region, Seven Mile Lake in Chapleau District and Deer Lake in Timmins District, are acidified (Table 1).

Figure 7 shows the distribution of sampled lakes in each alkalinity class by district. Hearst District has the highest percentage (94.86%) of non sensitive lakes, while Gogama District the lowest (48.98%).

6.0 pH

As a lake acidifies, acid sensitive species such as walleye (Stizostedion vitreum), smallmouth bass (Micropterus dolomieu), and lake trout (Salvelinus namaycush) may be impaired at pHs below 5.5 (Beamish 1976, Harvey 1980, Beggs et al. 1986). More acid tolerant species such as the rock bass (Ambloplites rupestris), and yellow perch (Perca flavescens), may respond to lake acidification with increased growth and/or population size, at least temporarily (Harvey 1980). These species will eventually disappear if water quality deteriorates further (Harvey 1980).

To examine the data on lake pH and compare regions we have categorized pH into four arbitrarily selected classes: (less than 5.0, 5.0-5.49, 5.5-5.99, >=6.0). The majority of pH values used in this report were obtained from either summer, fall or winter composite samples and therefore do not represent the minimum pH levels that can occur during episodic events, such as spring snowmelt (Jeffries et al. 1979).

Figure 6 shows that 99.19% of the lakes sampled in the Northern Region have a pH >=5.5. Conversely, fish populations in a very small percentage (0.81%) of the lakes are currently at risk due to acidic deposition.

The pH class of sampled lakes by district is shown in

Figure 8. A small percentage of the sampled lakes in the Chapleau, Gogama and Timmins districts have pH values between 5.0 and 5.5, suggesting that fish populations in these lakes may be impaired by acidification.

7.0 SULPHATE

The sulphate (SO4) concentration found in water is related to the atmospheric deposition of sulphuric oxides, principle components of acid precipitation (MOI 1981). Sulphate may be deposited locally after undergoing chemical transformation, or it may be transported long distances by air currents before settling (Mulvaney and Hadden 1981).

The median SO4 concentrations for lakes sampled in the Northwestern, North Central, Northern, Northeastern, and Algonquin regions were all above the background sulphate level of 3.0 mg/l, postulated by Dillon (1983) to be typical of remote Canadian shield lakes not affected by long range air pollution. The median SO4 concentration is 3.96 mg/l for the Northern Region, low compared to that of 11.0 mg/l for lakes in the Sudbury zone. Of the lakes sampled in Northern Region, 69.44% have SO4 concentrations above 3.0 mg/l, compared with 99.74% in Algonquin Region, which is located in an area of higher deposition (Figure 9).

Based on these SO4 concentrations, a small proportion of

lakes sampled in the Northern Region are potentially stressed when compared to the Northeastern and Algonquin regions.

Figure 10 shows that in the Northern Region, the Kirkland Lake District has the highest percentage (100%) of sampled lakes above 3.0 mg/l SO4.

Districts with a sample size less than 20 were not included in this analysis because SO4 levels in fewer than 20 lakes may not be representative of lakes in the entire district. Hence the Cochrane District was omitted from Figure 10.

8.0 TOTAL ALUMINUM

Metals, such as aluminum (Al), are found in elevated concentrations in low pH lakes (Wright and Gjessing 1976); hence there is a strong inverse relationship between pH and aluminum concentrations in lakes (Baker 1982). Both field and laboratory studies have shown that the death of fish in acidic waters can be attributed, not only to low pH levels, but also to elevated concentrations of inorganic aluminum (Baker 1982, Odonell et al. 1984). At a pH of 5.0 to 5.2, aluminum has been found to be toxic in low concentrations. Concentrations of 0.1 mg/l and 0.2 mg/l inorganic aluminum are acutely toxic to white sucker and brook trout fry, respectively (Driscoll et al. 1980, Baker and Schofield 1982).

Both osmoregulatory stress, due to impaired ion exchange,

and respiratory distress, caused by mucous clogging of gills and gill damage, are associated with aluminum toxicity (Baker 1982).

In this data set total Al was measured, total Al being comprised of inorganic and organic forms (Baker 1982). The organically complexed form is less toxic to fish than the inorganic form (Baker 1982). Measurements of total Al may therefore substantially overestimate the potential toxicity to fish (Baker 1982).

Based on the above, lakes sampled with total Al>=0.1 mg/l (the lower limit of toxic effect for fish) were charted for each region and district (Figures 11 and 12).

In the Northern Region only a very small percentage (4.81%) of the sampled lakes have Al>=0.1 mg/l. The median aluminum concentration for sampled lakes in this region is 0.011 mg/l compared with 0.080 mg/l for lakes in the Sudbury loadzone. Since the pH for most of the lakes sampled in this region is above the critical pH (pH >6.0), and Al concentrations are largely below lethal concentrations (Al<0.1 mg/l), it is unlikely that many of the fish populations in this region have been adversely affected by aluminum toxicity.

Figure 12 shows the percentage of sampled lakes having Al>=0.1 mg/l by MNR administrative district. Cochrane and Moosonee districts were omitted from this analysis because they had a sample size of less than 20.

9.0 RESOURCES AT RISK

The current status of various sport fish lakes and the sensitivity of these lakes to future acidification is examined in order to determine the potential loss to sport fisheries on both a regional and district scale. Lake trout, brook trout (Salvelinus fontinalis), smallmouth bass, lake whitefish (Coregonus clupeaformis) and walleye lakes are considered because of their importance to anglers. The percentage of sport fish lakes falling into each pH/alkalinity category was used to determine the resources at risk due to acidification. The alkalinity categories used in this section were modified from those of MOE (1982) which were used in the previous analyses. Since no evidence has been found for fisheries loss at TIA >=40 ueq/l, we consider only 3 alkalinity classes (TIA<=0, 0<TIA<40, TIA>=40 ueq/l).

9.1 Lake Trout

Lake trout, one of the most acid sensitive species (Harvey 1975, Beamish 1976 and Beggs et al. 1985), is found throughout the Canadian shield area of Ontario (Figure 13). Of the total number of lake trout lakes, 55% occur in the area of highest deposition (Beggs et al. 1985).

The pH threshold, below which lake trout are impaired due to acidification, was found to be 5.5 by Beggs et al. (1985), Schindler et al. (1985) and Beamish (1976). In the Northern Region, 100% (N=34) of the sampled lake trout lakes have a pH >6.0 and are moderately sensitive or not sensitive to acidification stress based on our TIA classification (Figure 14). Thus, it appears that the lake trout fishery in this region is currently not impaired by acidification since all sampled lakes are above the pH threshold of 5.5, and have alkalinities of >40 ueq/l.

9.2 Smallmouth Bass

Smallmouth bass lakes are largely concentrated in southcentral Ontario, the area of highest acid loadings (Figure 15). The distribution of this species is limited by northern latitudes because of the importance of temperature on the population dynamics of this species (Shuter et al. 1980).

Beggs et al. (1986) showed mortality of overwintering young of the year smallmouth bass likely occurs at pHs below 5.15. Harvey (1980) found successful reproduction in this species was impaired at pH 5.3. Since 100% (N=16) of the smallmouth bass lakes sampled in the Northern Region have a pH >=6.0, we would predict that the health of smallmouth bass populations in this region is currently unaffected by acidification. One of the

smallmouth bass lakes in the Northern Region is, however, extremely sensitive to acidic deposition, suggesting that this lake is at risk from further acidic deposition (Figure 14).

9.3 Lake Whitefish

Figure 16 illustrates that Lake whitefish lakes are widely distributed throughout Ontario.

Preliminary results of laboratory experiments suggest that the pH threshold for lake whitefish fry held in waters of calcium=3.5 mg/l is approximately 4.5 (P. Ihssen pers. comm.). This threshold pH compares favourably with Harvey's findings (pH 4.5) for lake whitefish in the LaCloche mountain lakes (Harvey 1979). However, in a netting survey of Grace Lake (pH 4.93) in Northeastern Region, only two mature whitefish were captured, suggesting the population is small and no longer recruiting (V. Liimatainen pers. comm.). We therefore assume the threshold for lake whitefish to be pH 5.0.

All (N=135) sampled lake whitefish lakes in the Northern Region have a pH >=6.0 and are moderately sensitive or not sensitive to acidification based on our TIA classes (Figure 14). Therefore, it would appear that the lake whitefish populations in this region are not stressed by acidification.

9.4 Walleye

Walleye are widely distributed throughout Ontario (Figure 17). This species, although tolerant of a great range of environmental conditions, appears to reach greatest abundance in large shallow, turbid lakes (Scott and Crossman 1973).

Beamish (1976) observed walleye populations to decline or disappear between a pH of 5.5 and 6.0. Figure 14 shows that 100% (N=198) of the sampled walleye lakes in the Northern Region have a pH>=6.0 and are moderately sensitive or not sensitive to acidification based on our TIA classes. Since walleye are at risk due to acidification when the pH is below 6.0 (Hulsman et al. 1983), walleye populations in this region do not appear to be impaired by acidification.

9.5 Brook Trout

The majority of brook trout lakes are found in southcentral Ontario, the area of highest acid loadings (Figure 18). Brook trout lakes, being small in area and high in elevation, are very susceptible to surface water acidification (Beggs et al. 1986).

The threshold pH for brook trout has been found to be 5.0 by Schofield (1976) and Beggs et al. (1986). This threshold pH is supported by field observations by Beggs et al. (1985). Netting surveys of 17 brook trout lakes (pH 4.7-6.2) showed an

absence of brook trout in lakes with pH <5.0. Figure 14 shows that 100% (N=91) of the brook trout lakes in this region have pHs >5.0. Therefore, the health of brook trout in these lakes does not appear to be currently stressed by acidic deposition. Based on our TIA classes, a small percentage (6.6%) of the sampled brook trout lakes in this region are either extremely sensitive to acidification (N=4) or already acidified (N=2). Hence, future losses in the brook trout fisheries in these lakes may result from continued acidic deposition.

10.0 SUMMARY

Deposition data from MOE sampling stations shows that the Northern Region receives a mean annual rain pH of between 4.4 and 4.5 (MOE 1983). This is 14 to 17 times more acidic than pure rain unaffected by long range transport (pH 5.6).

Sulphate levels in 69.44% of the sampled lakes within the region are above background levels; therefore, virtually all lakes in this region have been affected by long range transport of sulphuric oxides.

Based on alkalinity classes, the majority (97.57%) of lakes sampled in this region are well buffered, being moderately to not sensitive to acidification. However, two lakes sampled, Seven Mile Lake in Chapleau District and Deer Lake in Timmins District, are acidified (TIA <=0 ueq/l).

In the Northern Region, five (0.81%) lakes sampled have pHs <=5.5. The fish populations in these lakes have probably been impaired by acidic deposition or are already extinct.

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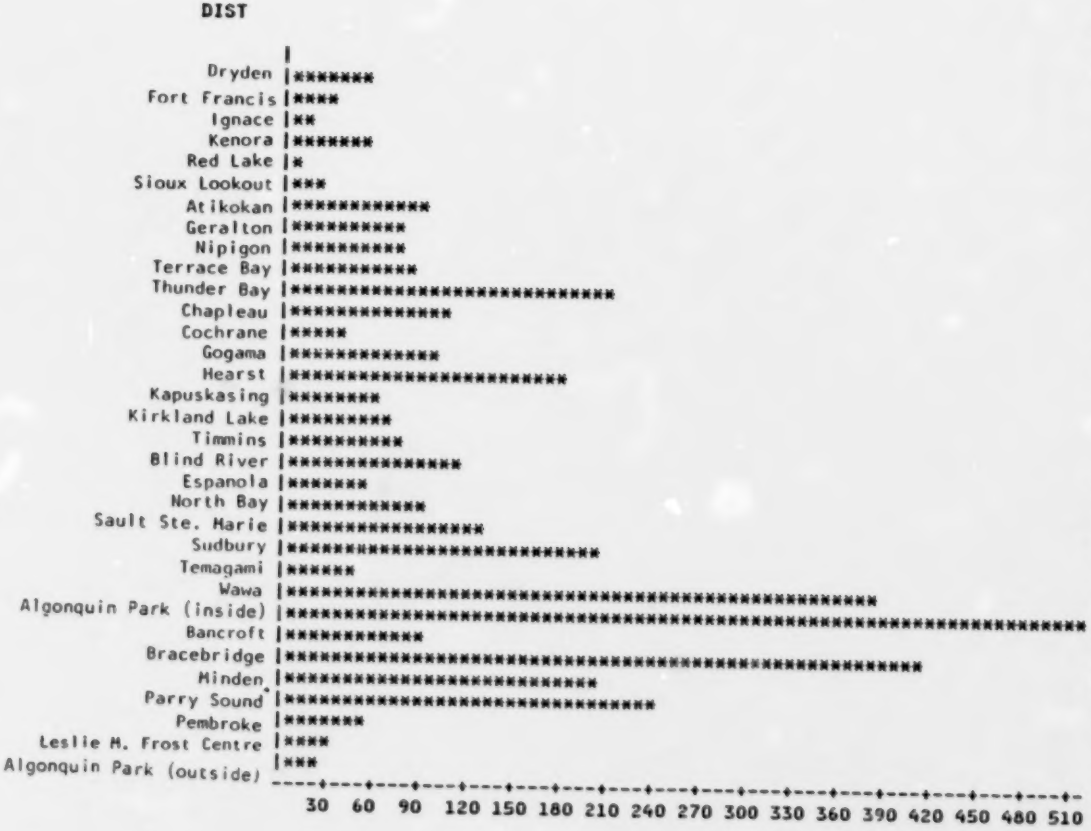
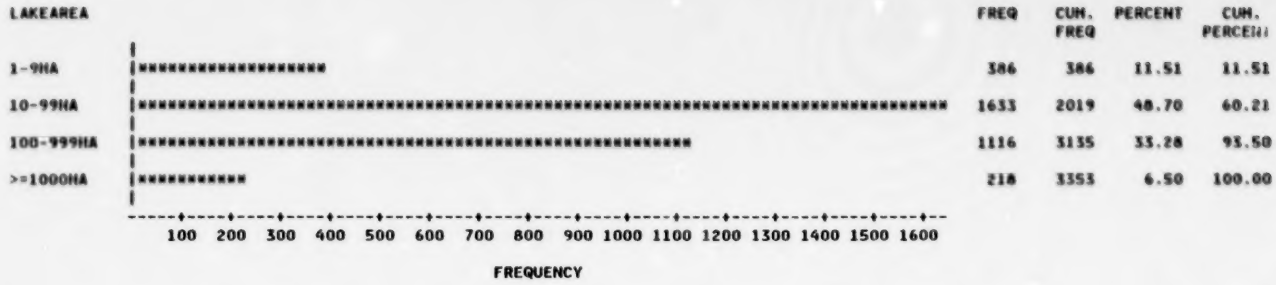
FIGURE 1: THE NUMBER OF LAKES SAMPLED IN EACH MNR ADMINISTRATIVE DISTRICT FROM THE SENSITIVITY DATA SET.



	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
Dryden	50	50	1.27	1.27
Fort Francis	29	79	0.74	2.01
Ignace	13	92	0.33	2.34
Kenora	52	144	1.33	3.67
Red Lake	11	155	0.28	3.95
Sioux Lookout	22	177	0.56	4.51
Atikokan	88	265	2.24	6.75
Geraldton	76	341	1.94	8.69
Nipigon	77	418	1.96	10.65
Terrace Bay	84	502	2.14	12.79
Thunder Bay	207	709	5.28	18.07
Chapleau	103	812	2.62	20.69
Cochrane	40	852	1.02	21.71
Gogama	101	953	2.57	24.29
Hearst	177	1130	4.51	28.80
Kapuskasing	63	1193	1.61	30.40
Kirkland Lake	69	1262	1.76	32.16
Timmins	74	1336	1.89	34.05
Blind River	115	1451	2.93	36.98
Espanola	49	1500	1.25	38.23
North Bay	91	1591	2.32	40.55
Sault Ste. Marie	129	1720	3.29	43.83
Sudbury	203	1923	5.17	49.01
Temagami	48	1971	1.22	50.23
Wawa	384	2355	9.79	60.02
Algonquin Park (inside)	515	2870	13.12	73.14
Bancroft	93	2963	2.37	75.51
Bracebridge	413	3376	10.52	86.03
Minden	199	3575	5.07	91.11
Parry Sound	242	3817	6.17	97.27
Pembroke	54	3871	1.38	98.65
Leslie M. Frost Centre	30	3901	0.76	99.41
Algonquin Park (outside)	23	3924	0.59	100.00

NOTE: NOT ALL LAKES SAMPLED HAVE DATA FOR EACH OF THE VARIABLES (IE. LAKE AREA ETC.), THEREFORE THE TOTAL NUMBERS OF LAKES SAMPLED, SHOWN IN SUBSEQUENT FIGURES, MAY BE DIFFERENT.

FIGURE 2: THE PERCENTAGE OF SAMPLED LAKES IN EACH LAKE AREA CLASS - FOR ALL OF ONTARIO.



FOR NORTHERN REGION

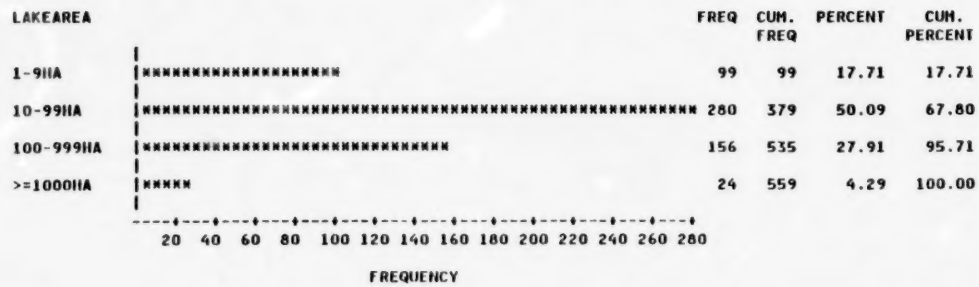
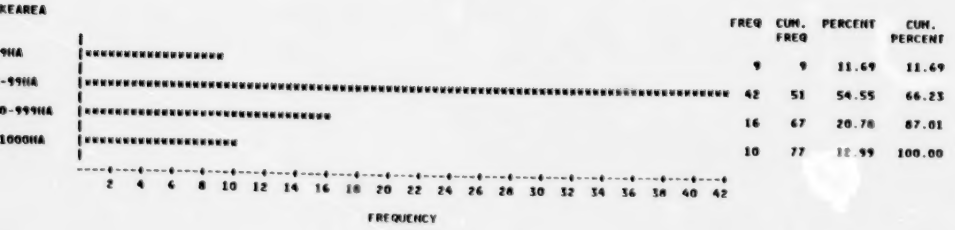
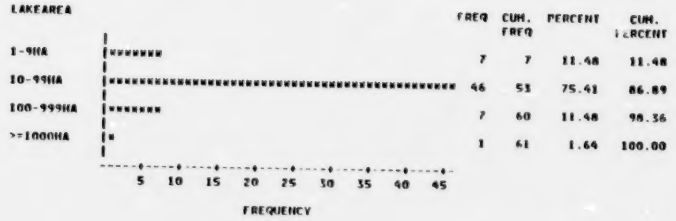


FIGURE 3: THE PERCENTAGE OF SAMPLED LAKES IN EACH LAKE AREA CLASS BY DISTRICT.

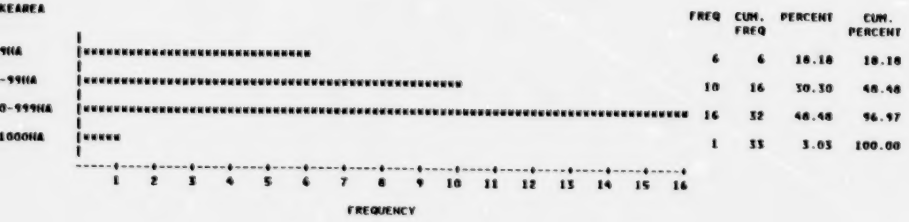
Chapleau



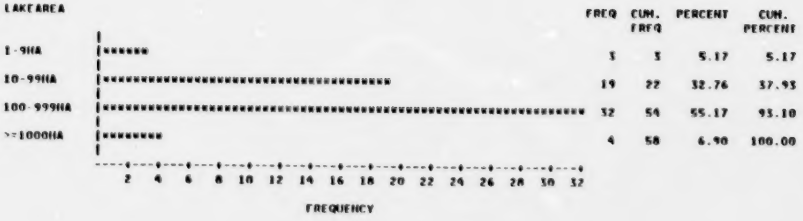
Kapuskasing



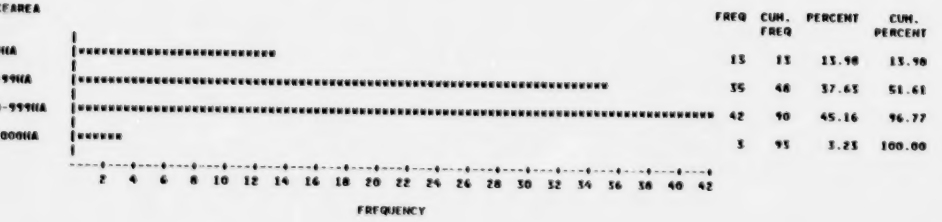
Cochrane



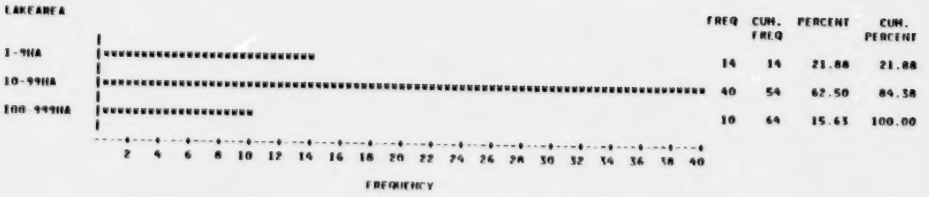
Kirkland Lake



Gogama



Timmins



Hearst

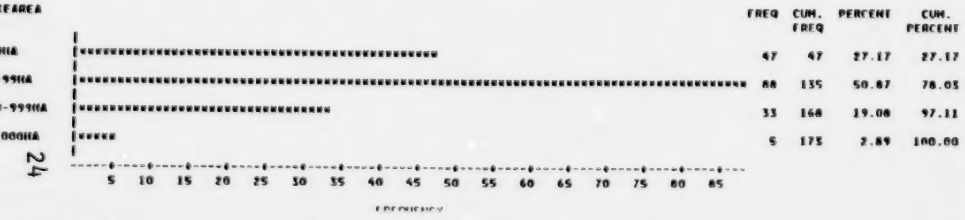


FIGURE 4: MNR ADMINISTRATIVE DISTRICT MAP WITH ADJUSTED PH ISOPLETHS AND THE SUDBURY DEPOSITION ZONE SUPERIMPOSED.

FIGURE 5: THE CHEMICAL SENSITIVITY TO ACID PRECIPITATION BASED ON THE COMPOSITION OF SOILS AND BEDROCK (FROM SHILTS 1981).

HIGH SENSITIVITY

Granite, granite gneiss, orthoquartzite, syenite

INTERMEDIATE-HIGH SENSITIVITY

Volcanic rocks, shales, greywacke sandstones, ultramafic rocks, gabbro, mudstone and metamorphic equivalents

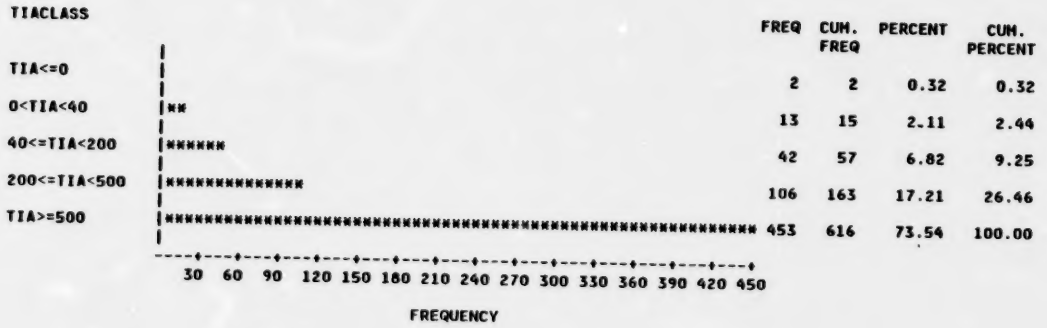
INTERMEDIATE-LOW SENSITIVITY

Calcareous clastic rocks and carbonate rocks interbedded or interspersed with noncalcareous sedimentary, igneous and metamorphic rocks

LOW SENSITIVITY

Limestone, dolomite and metamorphic equivalents

FIGURE 6: ALKALINITY AND PH CLASS OF LAKES IN THE NORTHERN REGION.



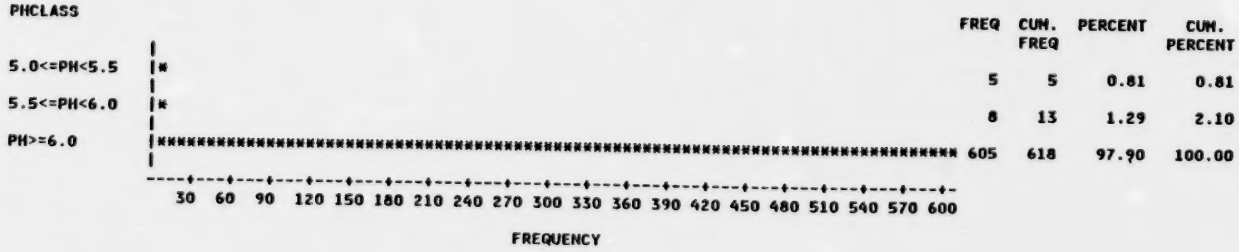
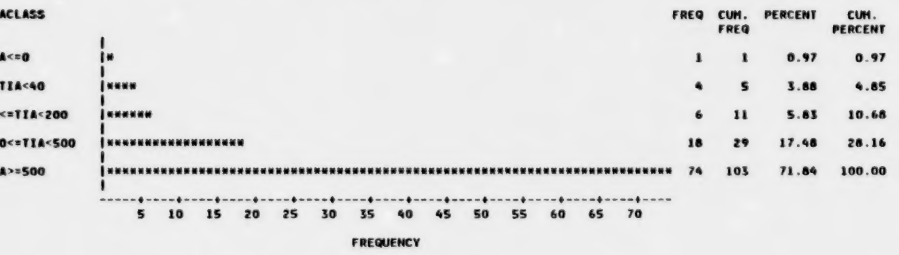


FIGURE 7: PERCENTAGE OF SAMPLED LAKES IN EACH ALKALINITY CLASS BY DISTRICT.

Chapleau

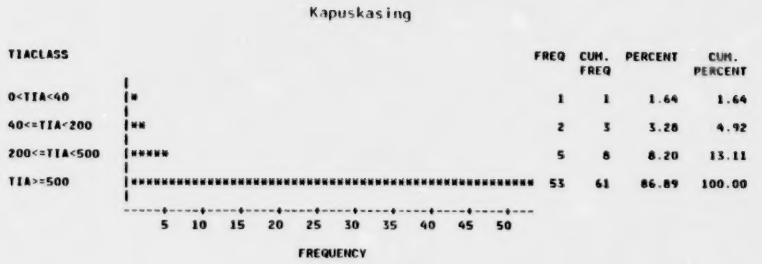


ACLASS	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
A<=0	1	1	0.97	0.97
TIA<40	4	5	3.88	4.85
<=TIA<200	6	11	5.83	10.68
0<=TIA<500	18	29	17.48	28.16
A>=500	74	103	71.84	100.00

5 10 15 20 25 30 35 40 45 50 55 60 65 70

FREQUENCY

Kapuskasing

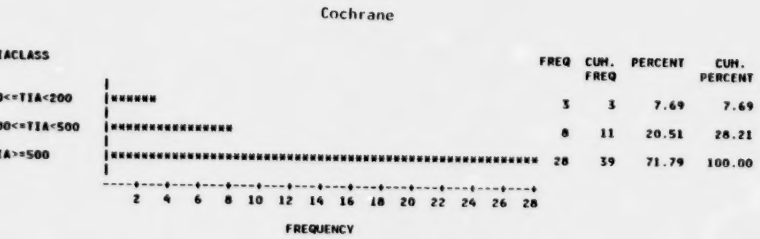


TIACLASS	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
0<TIA<40	1	1	1.64	1.64
40<=TIA<200	2	3	3.28	4.92
200<=TIA<500	5	8	8.20	13.11
TIA>=500	53	61	86.89	100.00

5 10 15 20 25 30 35 40 45 50

FREQUENCY

Cochrane

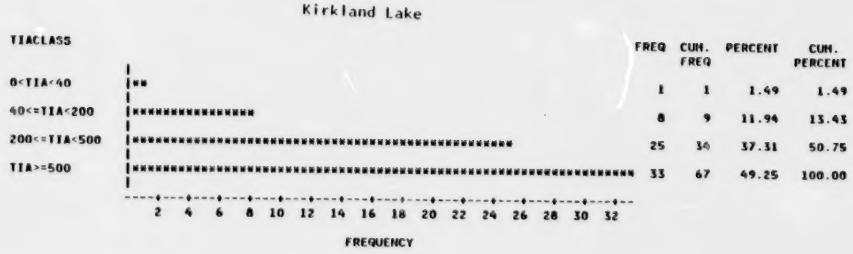


IACLASS	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
0<=TIA<200	3	3	7.69	7.69
00<=TIA<500	8	11	20.51	28.21
IA>=500	28	39	71.79	100.00

2 4 6 8 10 12 14 16 18 20 22 24 26 28

FREQUENCY

Kirkland Lake

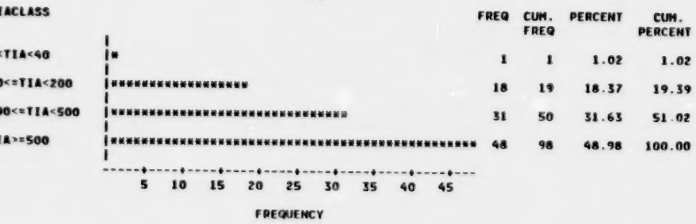


TIACLASS	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
0<TIA<40	1	1	1.49	1.49
40<=TIA<200	8	9	11.94	13.43
200<=TIA<500	25	34	37.31	50.75
TIA>=500	33	67	49.25	100.00

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32

FREQUENCY

Gogama

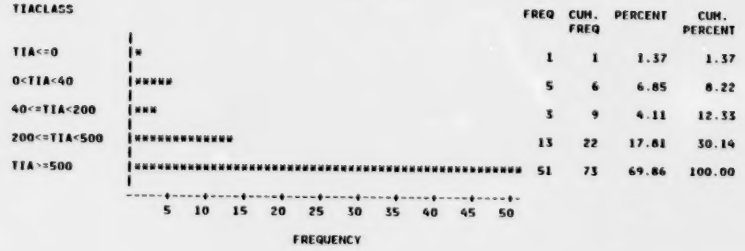


IACLASS	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
<TIA<40	1	1	1.02	1.02
0<=TIA<200	18	19	18.37	19.39
00<=TIA<500	31	50	31.63	51.02
IA>=500	48	98	48.98	100.00

5 10 15 20 25 30 35 40 45

FREQUENCY

Timmins

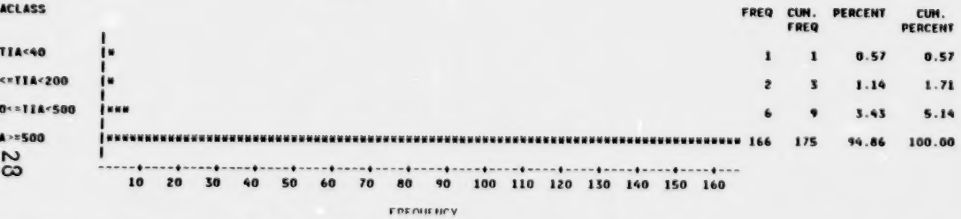


TIACLASS	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
TIA<=0	1	1	1.37	1.37
0<TIA<40	5	6	6.85	8.22
40<=TIA<200	3	9	4.11	12.33
200<=TIA<500	13	22	17.81	30.14
TIA>=500	51	73	69.86	100.00

5 10 15 20 25 30 35 40 45 50

FREQUENCY

Hearst



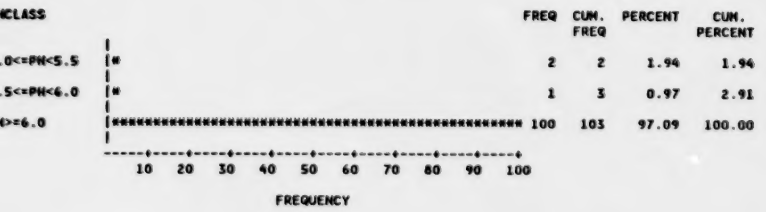
ACLASS	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
TIA<40	1	1	0.57	0.57
<=TIA<200	2	3	1.14	1.71
0<=TIA<500	6	9	3.43	5.14
A>=500	166	175	94.86	100.00

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

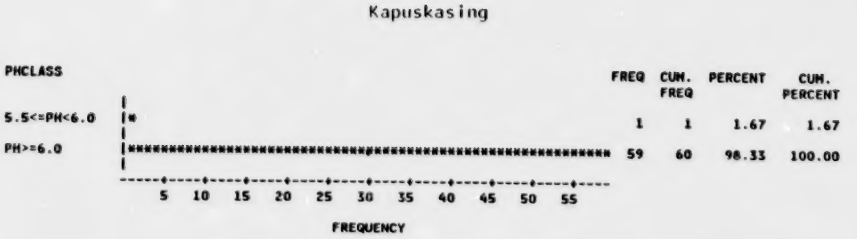
FREQUENCY

FIGURE 8: PERCENTAGE OF SAMPLED LAKES IN EACH PH CLASS BY DISTRICT.

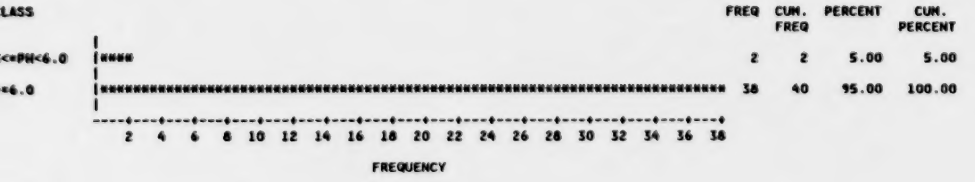
Chapleau



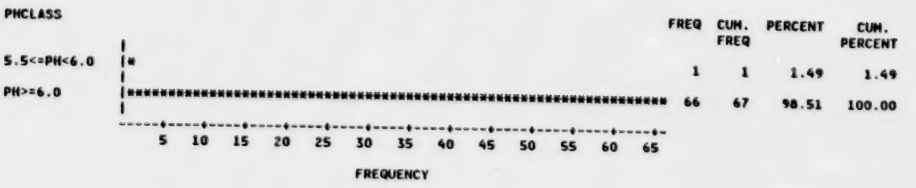
Kapuskasing



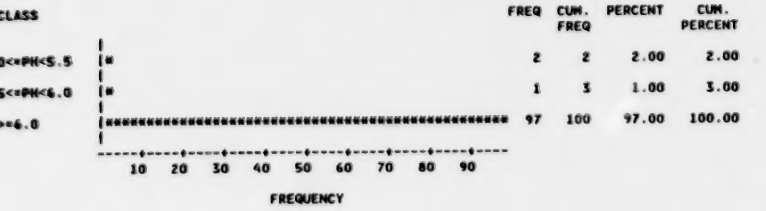
Cochrane



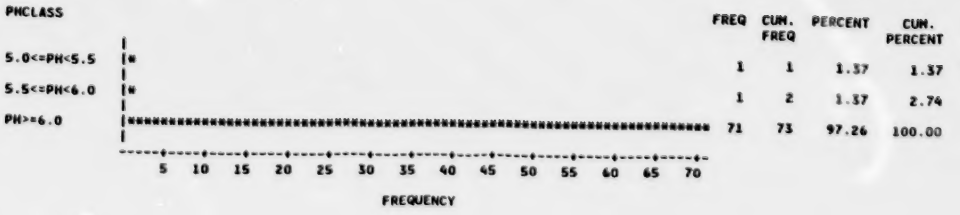
Kirkland Lake



Gogama



Timmins



Hearst

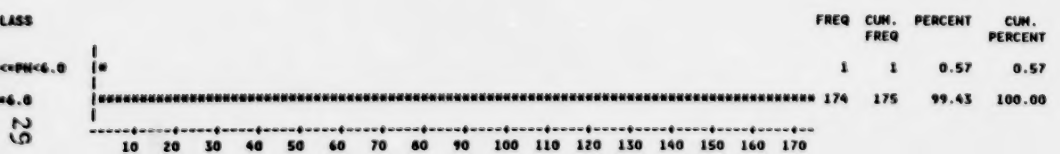
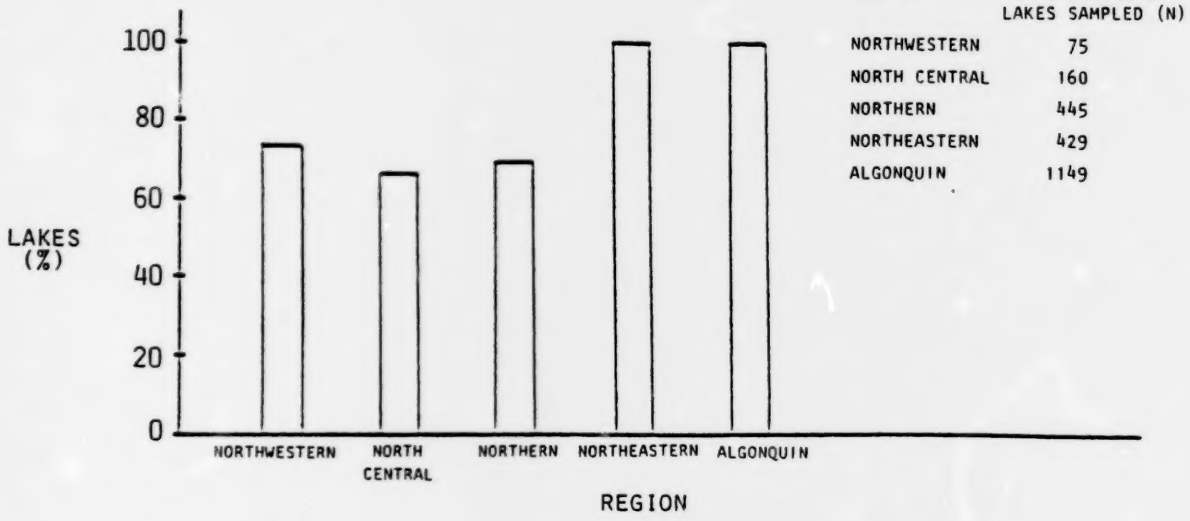
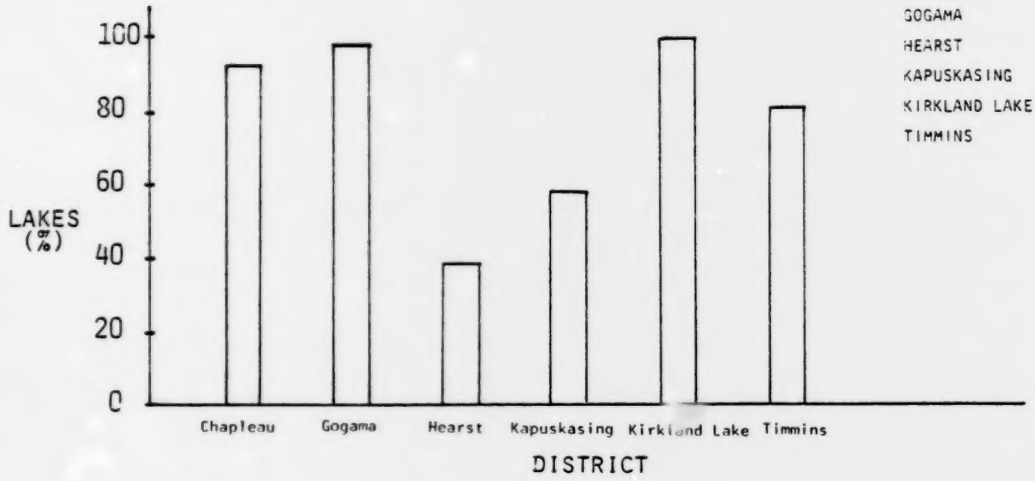


FIGURE 9: PERCENTAGE OF SAMPLED LAKES ABOVE THE BACKGROUND LEVEL OF 3.0 MG/L SO_4 - BY REGION.



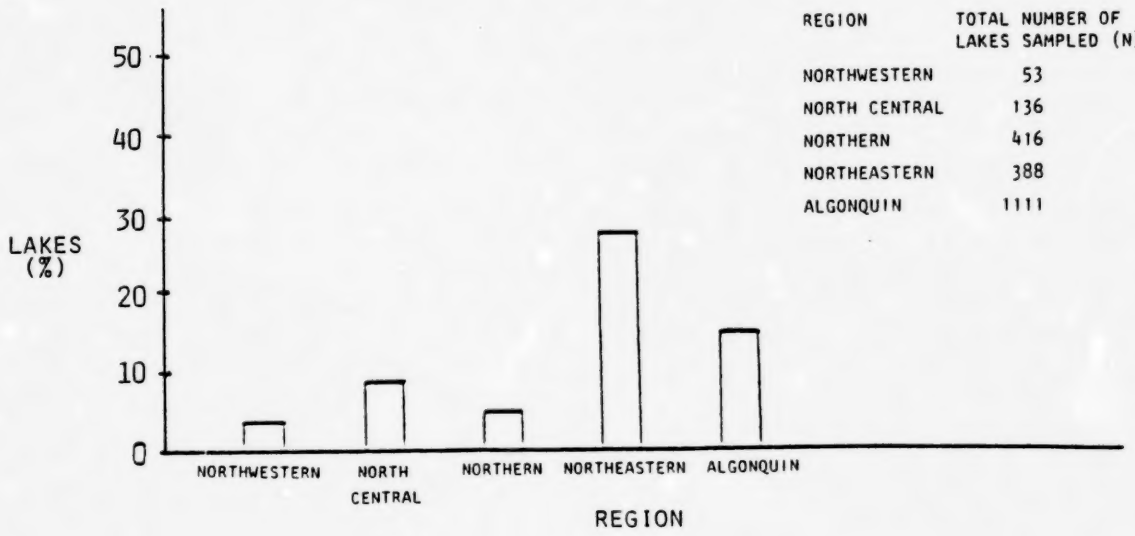
REGION	TOTAL NUMBER OF LAKES SAMPLED (N)
NORTHWESTERN	75
NORTH CENTRAL	160
NORTHERN	445
NORTHEASTERN	429
ALGONQUIN	1149

FIGURE 10: PERCENTAGE OF SAMPLED LAKES ABOVE THE BACKGROUND LEVEL OF 3.0 MG/L SO_4 - BY DISTRICT.



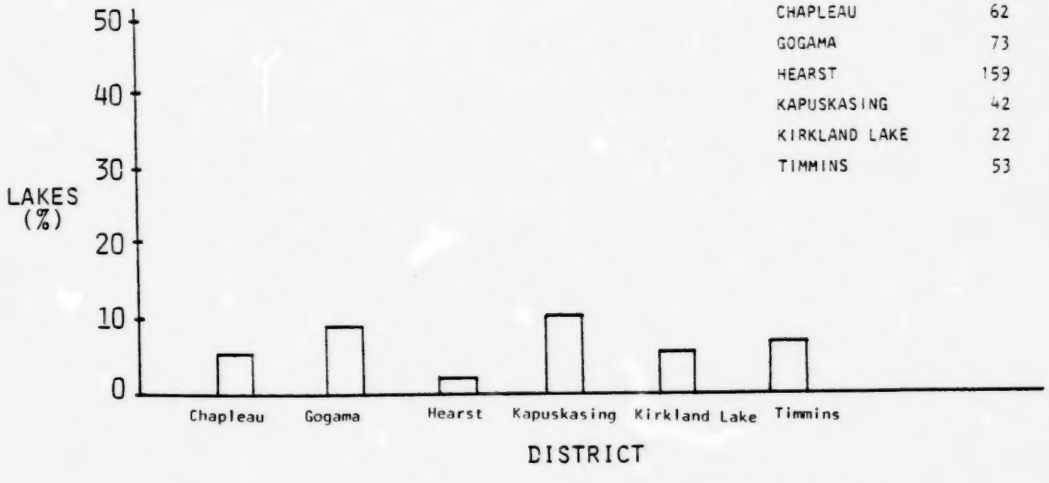
DISTRICT	TOTAL NUMBER OF LAKES SAMPLED (N)
CHAPLEAU	66
GOGAMA	74
HEARST	162
KAPUSKASING	48
KIRKLAND LAKE	29
TIMMINS	60

FIGURE 11: PERCENTAGE OF SAMPLED LAKES WITH TOTAL ALUMINUM >= 0.1 MG/L (LOWER LIMIT OF TOXIC EFFECT) - BY REGION.



REGION	TOTAL NUMBER OF LAKES SAMPLED (N)
NORTHWESTERN	53
NORTH CENTRAL	136
NORTHERN	416
NORTHEASTERN	388
ALGONQUIN	1111

FIGURE 12: PERCENTAGE OF SAMPLED LAKES WITH TOTAL ALUMINUM >= 0.1 MG/L (LOWER LIMIT OF TOXIC EFFECT) - BY DISTRICT.



DISTRICT	TOTAL NUMBER OF LAKES SAMPLED (N)
CHAPLEAU	62
GOGAMA	73
HEARST	159
KAPUSKASING	42
KIRKLAND LAKE	22
TIMMINS	53

FIGURE 13: DISTRIBUTION OF LAKE TROUT LAKES IN ONTARIO SAMPLED FOR ANALYSIS OF WATER CHEMISTRY.

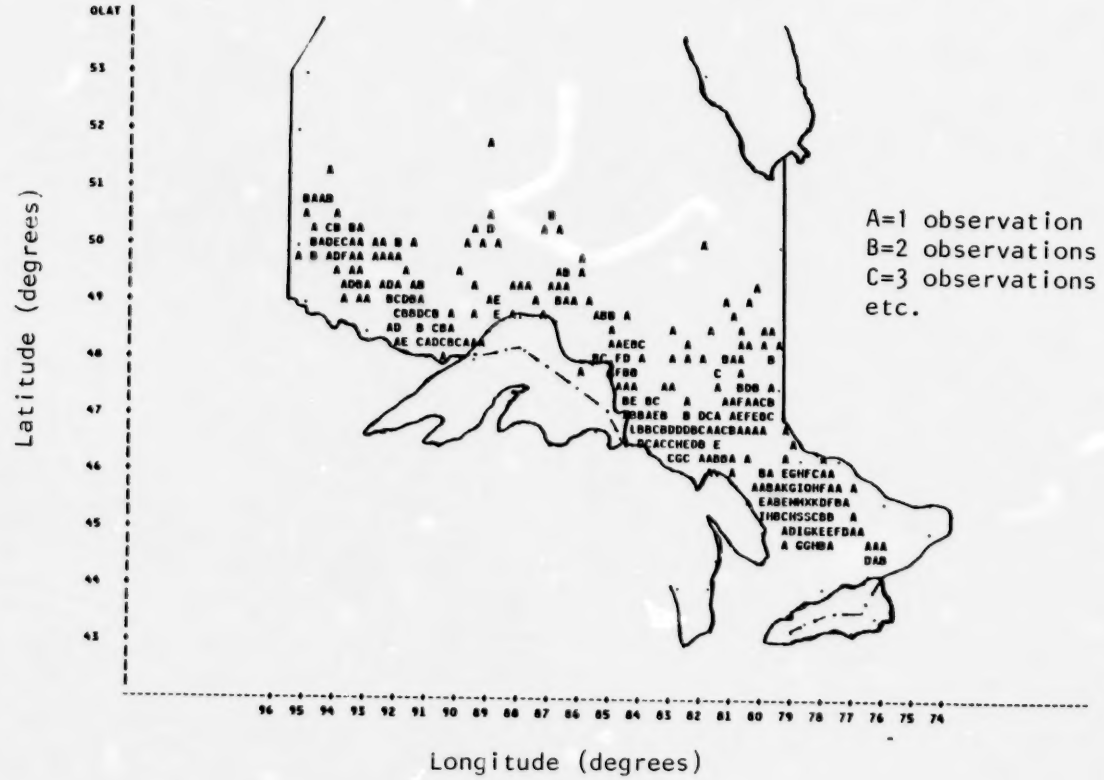
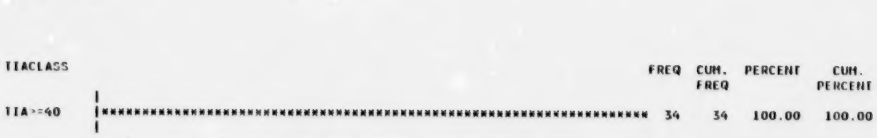


FIGURE 14: THE PERCENTAGE OF SAMPLED LAKE TROUT, SMALLMOUTH BASS, LAKE WHITEFISH, WALLEYE AND BROOK TROUT IN TIA/PH CLASSES - NORTHERN REGION.

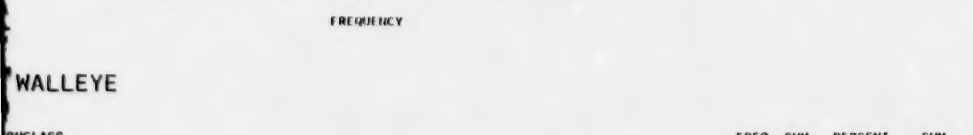
LAKE TROUT

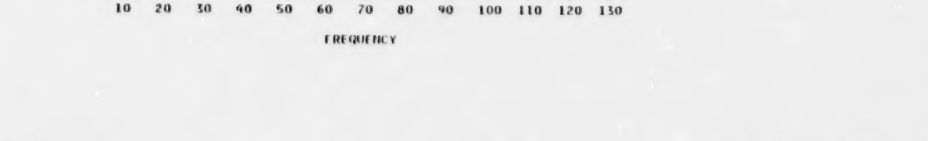


SMALLMOUTH BASS

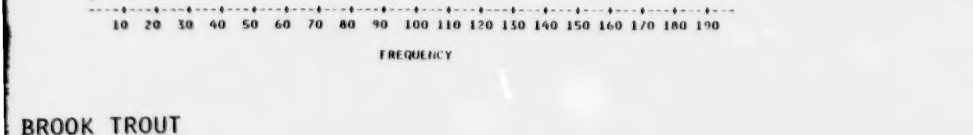
LAKE WHITEFISH

WALLEYE





BROOK TROUT



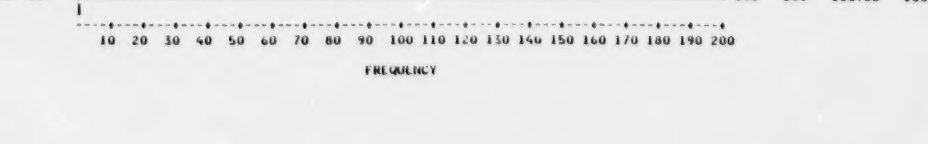


FIGURE 15: DISTRIBUTION OF SMALLMOUTH BASS LAKES IN ONTARIO SAMPLED FOR ANALYSIS OF WATER CHEMISTRY.

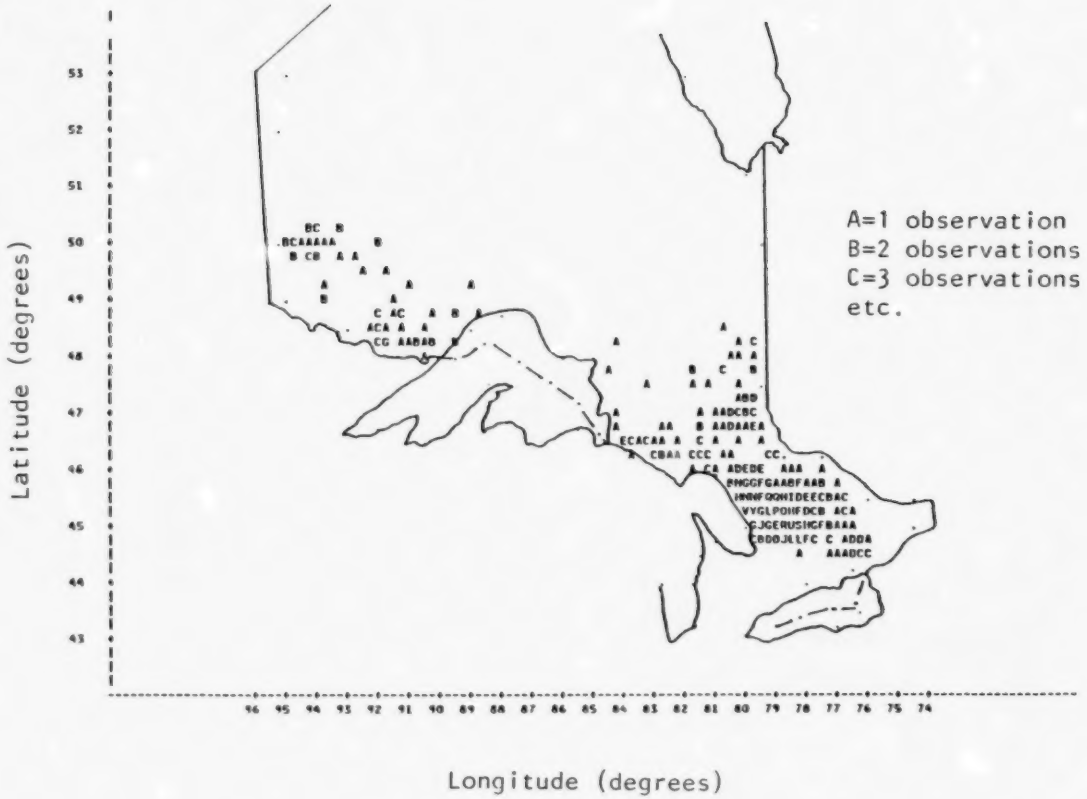


FIGURE 16: DISTRIBUTION OF LAKE WHITEFISH LAKES IN ONTARIO SAMPLED FOR ANALYSIS OF WATER CHEMISTRY.

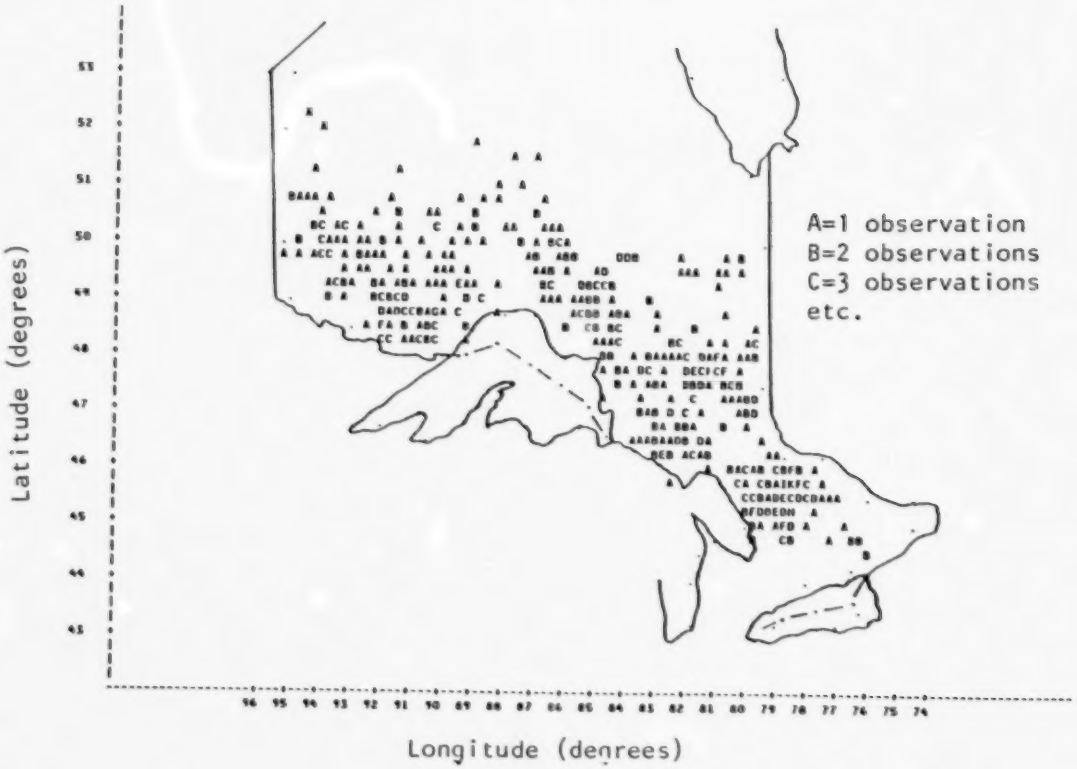


FIGURE 17: DISTRIBUTION OF WALLEYE LAKES IN ONTARIO SAMPLED FOR ANALYSIS OF WATER CHEMISTRY.

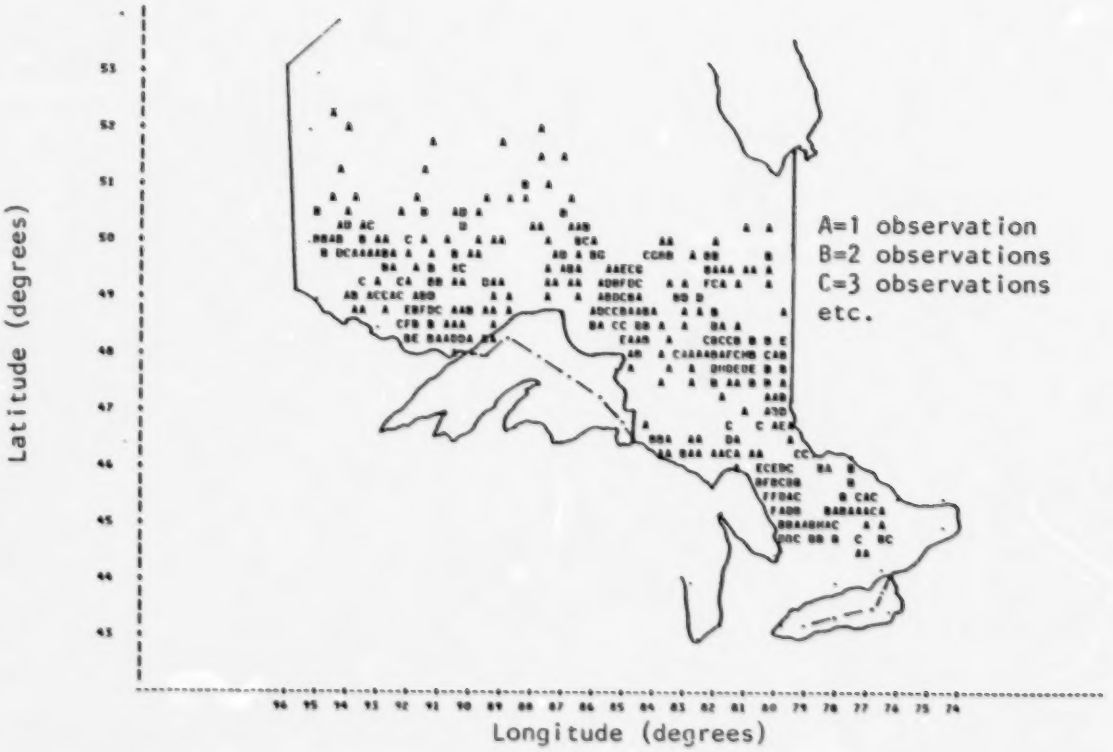


FIGURE 18: DISTRIBUTION OF BROOK TROUT LAKES IN ONTARIO SAMPLED FOR ANALYSIS OF WATER CHEMISTRY.

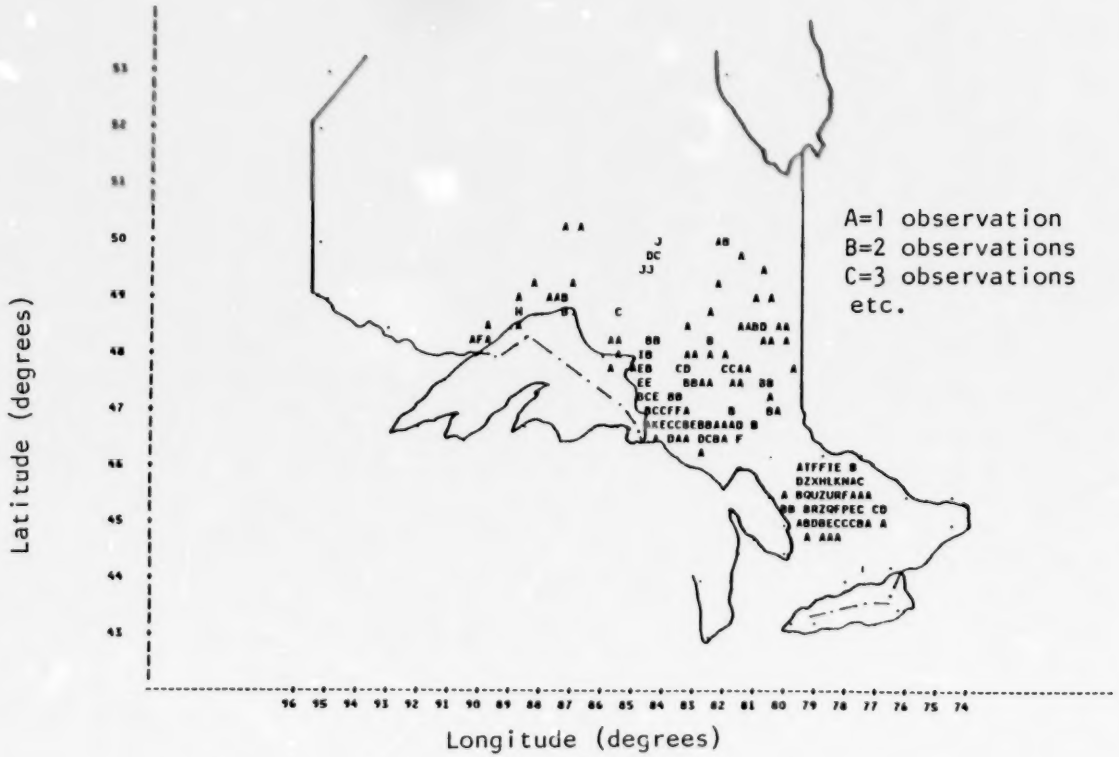

A=1 observation
B=2 observations
C=3 observations
etc.
Latitude (degrees)
Longitude (degrees)
96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74

TABLE 1: WATER CHEMISTRY DATA FOR ACIDIC (TIA<= 0 UEQ/L) AND EXTREMELY SENSITIVE (0< TIA < 40 UEQ/L) LAKES IN NORTH CENTRAL REGION.

CHAPLEAU DISTRICT - ACIDIC

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
SEVEN MILE LAKE	4743	8323	4LE02	CHAPPISE	10.5	.	80	5	13	5.35	-8	12	.	.	.	.	.	.	.	.	.	.	.

- EXTREMELY SENSITIVE

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
ESKER LAKE (NL)	4803	8231	4L	IVANHOE	.	.	82	6	30	5.235	3.0	12	9.2	.	.	0.4	0.2	.	.	1.7	0.013	0.04	.
LEAST LAKE	4736	8313	2BE10	NIMITZ	43.5	.	78	6	.	6.800	23.0	.	.	.	.	.	.	.	.	.	.	.	.
RED BARK LAKE	4734	8314	2BE10	REANEY	16.3	.	79	8	.	5.960	14.0	16	.	.	.	.	.	.	.	.	.	.	.
WHITE BARK LAKE	4734	8314	2BE10	REANEY	13.5	.	79	8	.	6.090	21.6	16	.	.	.	.	.	.	.	.	.	.	.

GOGAMA DISTRICT - EXTREMELY SENSITIVE

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
RAY LAKE (NL)	4729	8152	4LA08	INVERGARRY	4.1	.	84	2	2	5.865	3.4	11.7	4.4	.	1.4	0.7	.	.	0.38	2.68	0.013	0.028	.

HEARST DISTRICT - EXTREMELY SENSITIVE

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
JOHNSTON LAKE (NL)	4935	8432	4JC08	ARNOTT	8.9	.	84	2	15	5.857	26.4	12.7	10	.	6	0.9	0.22	.	0.26	1.68	0.012	0.018	.

KAPUSKASING DISTRICT - EXTREMELY SENSITIVE

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
LAKE 6 (NL)	4955	8200	4LG15	HOWELLS	.	.	80	6	2	5.65	32	22	.	.	.	.	.	.	.	.	.	.	.

KIRKLAND LAKE DISTRICT - EXTREMELY SENSITIVE

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
CLEAR LAKE (NL)	4751	7941	2JC03	BAYLY	44.6	.	80	6	12	5.85	38	31	.	.	.	.	.	.	.	.	.	.	.

TIMMINS DISTRICT - ACIDIC

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
DEER LAKE	4834	8051	4HD01	GERHAN	3.8	.	82	7	12	5.539	0	.	6.7	.	.	0.6	0.24	.	.	3.3	0.016	0.041	.

- EXTREMELY SENSITIVE

LAKE	LAT	LONG	WSHED	TWP	LKAREA	WSHEDA	YR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
COOK LAKE	4823	8118	4LA02	DELORO	4.4	.	84	1	31	6.171	13.0	13.4	18.5	.	2.8	1.0	0.24	.	0.22	3.14	0.023	0.038	.
MCINNIS LAKE (NL)	4835	8053	4M	GERMAN	.	.	82	6	3	6.437	23.4	14.6	5.9	.	.	1.1	0.26	.	.	3.00	.	.	.
SLAB LAKE	4833	8052	4MB02	GERMAN	2.8	.	79	8	.	6.200	10.6	14.0	.	.	.	.	.	.	.	.	.	.	.
SPRING LAKE (NL)	4835	8053	4MD01	GERMAN	2.6	.	79	8	.	6.040	11.0	13.0	.	.	.	.	.	.	.	.	.	.	.
WEST COMMANDO LAKE	4815	8135	4LB09	ROBB	4.6	.	84	2	4	5.424	5.8	16.4	89.7	.	9.9	1.5	0.34	0	0.22	2.67	0.058	0.015	.

APPENDICES

Appendix 1

Abbreviations of chemical and physical parameters used in this report.

LAT	- latitude
LONG	- longitude
WSHED	- watershed
TWP	- township
LKAREA	- lake area
WSHEDA	- watershed area
Yr	- year
Mth	- month
pH	- acidity
TIA	- total inflection point alkalinity (ueq/l)
COND	- conductivity (umhos/cm)
COLAP	- apparent colour of sampled lake (hazen units)
COLTR	- true colour of sampled lake (hazen units)
DOC	- dissolved organic carbon (mg/ml)
CA	- calcium (mg/l)
MG	- magnesium (mg/l)
Na	- sodium (mg/l)
K	- potassium (mg/l)
SO_4	- sulphate (mg/l)
AL	- aluminum (mg/l)
MN	- manganese (mg/l)
Fe	- iron (mg/l)
STDATE	- station date
SPNB	- species number
LT	- lake trout
BT	- brook trout
SMB	- smallmouth bass
LWF	- lake whitefish

Appendix II

Alphabetical listing of all sampled lakes in Northern Region.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
712	(#38) PORKCHOP LAKE (NL)	4928	8457	4JC01	HIAWATHA	34	183.4	.	84	2
713	ABIMATINU LAKE	4933	8135	4LB03	ADANAC	32	167.2	.	84	1
714	ABNEY LAKE	4718	8223	2C	ABNEY	31	.	.	82	7
715	ABRAM LAKE	4946	8414	4JA01	STUDHOLME	34	84.2	.	84	2
716	ANNABEL LAKE	4936	8456	4JC09	MERCER	34	162.8	.	84	2
717	AITKEN LAKE	4848	8155	4LC01	AITKEN	35	81.4	.	84	2
718	ALEXANDER LAKE	4817	8035	4MB04	MCEVAY	36	15.5	121.8	80	6
719	ALLENBY LAKE	4850	8239	4LF01	BUCHAN	35	87.1	.	84	1
720	ANDERSON LAKE	4932	8444	4JC04	FROST	34	20.3	.	84	2
721	ANGELINA LAKE	4945	8415	4JA01	STUDHOLME	34	55.5	.	84	2
722	ANITA LAKE	4937	8437	4JC04	ARNOTT	34	7.9	.	84	2
723	ANNE LAKE (NL)	4855	8022	4MA01	MARATHON	32	11.5	.	80	7
724	ANTLER LAKE	4735	8342	2BE11	BORDELEAU	31	64.5	.	85	2
725	ARAGON LAKE	4732	8136	4LA06	CHAMPAGNE	33	88.4	.	84	2
726	ARMITAGE LAKE	4911	8459	4JC11	LESSARD & CHELS	34	113.5	.	84	2
727	ARNOTT LAKE	4936	8436	4JC04	ARNOTT	34	224.1	.	84	2
728	ATHLONE LAKE	4703	8145	2CE02	ATHLONE	33	102.7	.	80	1
729	AUDREY LAKE	4937	8437	4JC04	ARNOTT	34	3.2	.	84	2
730	AXE LAKE (NL)	4929	8434	4JC12	MCEWING	34	20.6	.	84	2
731	BAKER LAKE	4956	8153	4LG10	HOWELLS	35	16.2	.	84	1
732	BAKER LAKE (NL)	4826	8126	4LA01	OGDEN	38	7.6	.	84	2
733	BANANA LAKE (EVELYN)	4742	8337	4LE02	DALMAS	31	31.6	.	84	2
734	BANKS LAKE	4947	8359	4LK06	STODDART	34	94.0	.	84	2
735	BARBER'S BAY	4837	8054	4M	GERMAN	38	.	.	82	6
736	BARDWELL LAKE	4752	8118	4LA03	SOTHMAN	33	.	.	80	5

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
712	16	7.410	1132.0	116.3	62.5	.	13.4	17.9	4.16	0.40	0.16	2.81	0.013	0.006	.
713	27	7.648	478.6	61.6	155.7	.	18.4	9.2	2.04	0.95	0.50	2.36	0.063	0.007	.
714	27	7.388	294.6	52.0	36.1	.	.	6.0	1.56	.	.	6.60	0.042	0.041	.
715	14	8.350	2106.0	204.0	15.0	.	6.6	30.1	6.70	0.80	0.46	2.38	0.003	0.007	.
716	19	7.370	2672.0	260.0	68.0	.	12.6	42.1	7.10	0.80	0.36	2.26	0.018	0.084	.
717	4	7.867	859.2	93.4	66.5	.	12.7	14.5	2.52	0.75	0.28	3.25	0.015	0.002	.
718	17	6.550	174.0	36.0	.	.	.	.	.	.	.	.	.	.	.
719	30	7.109	318.8	50.4	244.5	.	33.0	8.9	1.82	0.45	0.18	1.81	0.097	0.026	.
720	19	7.430	1430.0	141.0	7.0	.	7.2	20.9	4.12	0.45	0.40	1.26	0.003	0.002	.
721	14	8.430	3008.0	294.0	22.0	.	6.7	41.5	10.20	2.05	0.72	3.71	0.010	0.018	.
722	15	7.107	318.6	37.5	3.0	.	2.1	5.2	0.98	.	0.26	1.29	0.003	0.002	.
723	12	8.210	1152.0	111.0	.	.	.	.	.	.	.	.	.	.	.
724	15	7.330	1226.6	135.0	.	56	7.8	20.7	3.85	1.20	0.92	5.42	0.025	0.022	.
725	2	7.785	788.6	98.7	108.8	.	11.3	14.1	3.12	1.00	0.40	5.82	0.036	0.019	.
726	17	7.550	1476.0	152.0	42.0	.	10.4	22.8	5.18	0.50	0.68	3.94	0.007	0.004	.
727	15	8.290	2508.0	246.0	1.5	.	1.9	34.4	9.36	0.70	1.20	5.74	0.005	0.002	.
728	.	6.090	48.6	38.0	.	.	.	.	.	.	.	.	.	.	.
729	15	6.973	425.8	48.3	10.0	.	5.2	6.6	1.36	.	0.46	0.79	0.009	0.021	.
730	18	7.820	2478.0	241.0	14.5	.	6.4	37.6	6.36	0.75	0.34	2.12	0.004	0.007	.
731	26	8.336	2331.2	230.0	2.4	.	2.7	32.2	8.06	0.90	0.46	4.82	0.000	0.012	.
732	5	7.571	501.6	67.1	4.3	.	2.5	8.6	1.46	0.80	0.38	3.98	0.010	0.004	.
733	10	7.813	934.4	106.5	2.1	.	2.3	15.6	2.08	1.00	0.48	5.67	.	.	.
734	11	8.050	1857.0	187.0	47.4	.	10.6	27.0	6.60	0.90	0.50	2.79	0.006	0.003	.
735	3	8.329	2120.6	212.0	17.5	.	.	27.3	6.05	.	.	4.20	.	.	.
736	30	7.750	814.0	119.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
737	BARNET LAKE	4710	8111	2DA02		33	346.7	.	81	7
738	BAY LAKE	4936	8220	4LF03	PEARCE	35	65.6	.	84	1
739	BEAR LAKE	4807	7938	2JC04	MCVITTIE	36	116.8	.	81	8
740	BEATON LAKE	4853	8448	4JC15	GOURLAY	34	232.5	.	80	7
741	BEAUCAGE LAKE	4813	8153	4LB10	SEWELL	38	55.4	.	84	2
742	BEAVERHOUSE LAKE	4811	7944	2JC07	MCVITTIE	36	226.9	.	81	7
743	BECKETT LAKE	4733	8225	4LC03	EDITH	31	19.6	.	80	5
744	BELL LAKE	4955	8328	4LK07	MULVEY & RITCHI	34	49.3	.	84	2
745	BENNET LAKE	4948	8218	4LG15	GUILFOYLE	35	95.6	.	84	1
746	BERNICE LAKE	4733	8151	4LA08	BENNEWEIS	33	32.4	.	80	5
747	BESS LAKE	4754	8101	4LA03	MIDLOTHIAN	36	7.5	.	84	2
748	BIG BOULDER LAKE (BOULDER	4812	8216	4L	MUSKEGO	31	.	.	82	6
749	BIG INDIAN LAKE (NL)	4923	8147	4LB04	ALEXANDRA	32	55.8	.	84	1
750	BIG SKUNK LAKE	4936	8433	4JC08	ARNOTT	34	302.9	.	80	7
751	BIGGS LAKE	4759	8242	4LC06	BIGGS	31	341.9	.	80	8
752	BIGWATER LAKE	4837	8118	4MD04	MURPHY	38	186.6	.	80	7
753	BITTERN LAKE	4828	8315	4LH05	LERWICK	31	97.4	.	84	2
754	BLACKIE'S LAKE (NL)	4727	8127	4LA06	GARIBALDI	33	14.1	.	84	2
755	BLAIR LAKE	4751	8125	4LA01	NURSEY	33	245.0	.	84	2
756	BLUE GOOSE LAKE	4959	8409	4JB01	238	34	11.3	.	84	2
757	BLUE LAKE	4835	8142	4LB09	ROBB	38	11.4	.	84	2
758	BLUEBELLE LAKE	4947	8415	4JC06	STUDHOLME	34	32.4	.	84	2
759	BLUEJAY LAKE (NL)	5004	8409	4JB03	238	34	5.3	.	84	2
760	BLUETEAL LAKE (NL)	5004	8410	4JB03	238	34	3.6	.	84	2
761	BOB LAKE (NL)	4736	8109	2JD08	MACHURCHY	33	.	.	80	5

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
737	7	6.910	96.6	39.0	9.4	.	4.0	3.6	1.05	0.70	0.40	10.00	0.034	0.010	0.03
738	29	7.788	976.2	108.1	143.9	.	18.2	15.7	3.56	1.25	0.52	2.63	0.063	0.029	.
739	6	7.700	360.0	67.0	.	.	.	.	.	.	.	.	.	.	.
740	5	7.550	1020.0	132.0	.	.	.	.	.	.	.	.	.	.	.
741	4	7.818	791.6	97.7	59.7	.	9.2	13.1	3.00	0.80	0.46	5.94	0.026	0.008	.
742	16	7.640	378.0	65.0	.	.	.	.	.	.	.	.	.	.	.
743	21	7.400	1156.0	109.0	.	.	.	.	.	.	.	.	.	.	.
744	11	7.948	1810.6	178.0	58.0	.	11.1	25.5	5.70	1.10	0.58	1.44	0.005	0.008	.
745	26	8.495	3083.6	296.0	21.5	.	6.3	43.4	10.00	1.60	1.02	4.32	0.150	0.130	.
746	30	6.650	206.0	53.0	.	.	.	.	.	.	.	.	.	.	.
747	1	8.027	841.8	110.2	7.1	.	6.3	16.5	2.04	0.80	0.24	10.17	0.023	0.038	.
748	29	7.340	458.8	65.0	83.0	.	.	8.5	2.20	.	.	4.50	0.046	0.030	.
749	28	8.255	2054.0	204.0	67.5	.	11.3	29.2	6.34	1.85	0.72	3.28	0.035	0.011	.
750	9	8.050	2742.0	217.0	.	.	.	.	.	.	.	.	.	.	.
751	14	6.650	222.0	47.0	.	.	.	.	.	.	.	.	.	.	.
752	15	7.250	968.0	128.0	.	.	.	.	.	.	.	.	.	.	.
753	8	8.263	2275.6	222.0	15.5	.	5.1	33.6	5.98	0.80	1.16	3.15	0.003	0.004	.
754	7	7.983	1196.8	136.0	4.1	.	2.8	20.0	3.18	0.75	0.52	8.04	0.008	0.000	.
755	7	.	19999.8	72.8	45.8	.	10.0	.	.	.	.	5.80	0.007	0.000	.
756	12	8.590	3384.0	325.0	6.4	.	4.9	42.4	13.30	1.45	0.88	6.91	0.007	0.002	.
757	4	6.876	80.0	19.0	10.7	.	5.0	1.7	0.52	.	0.48	2.60	0.013	0.003	.
758	14	8.320	2004.0	195.0	3.0	.	3.3	28.4	6.36	0.40	0.62	2.68	0.007	0.004	.
759	12	8.356	4888.0	454.0	2.1	.	1.5	54.1	19.30	2.25	1.24	11.94	0.003	0.003	.
760	12	7.917	3350.0	311.0	22.2	.	6.3	44.1	9.76	1.30	0.86	2.38	0.003	0.078	.
761	27	7.100	1262.0	106.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
762	BOBWHITE LAKE	4957	8409	4JB03	ROGERS	34	4.9	.	84	2
763	BOICE LAKE	4935	8439	4JC01	ARNOTT	34	2.8	.	84	2
764	BOLKOW LAKE	4810	8353	2BD10	BADER	31	371.3	.	85	2
765	BONAR LAKE	4821	8305	4LE09	BONAR	31	.	.	80	8
766	BONE LAKE (NL)	4902	8449	4JC14	BAYFIELD	34	64.4	.	84	2
767	BONNER LAKE	4923	8208	4LF02	FAUQUIER	35	59.9	.	82	5
768	BOURINOT LAKE	4905	8300	4LL02	BOURINOT	35	132.8	.	80	7
769	BRACK LAKE	4919	8211	4LD03	NANSEN	35	46.6	.	82	5
770	BRAVE LAKE	4951	8420	4JC05	AUDEN	34	53.1	.	84	2
771	BROMLEY LAKE	4826	8159	4LC01	FREY	38	775.0	.	80	7
772	BRUCE LAKE	4813	8124	4LA02	FRIPP	38	87.5	.	84	2
773	BRYCE LAKE	4949	8409	4JA01	STUDHOLME	34	11.9	.	84	2
774	BUD LAKE (NL)	4728	8152	2CE10	INVERGARRY	33	4.9	.	80	6
775	BUFFALO ISLAND LAKE	4910	8500	4JC02	CHELSEA	34	273.8	.	84	2
776	BUFFINGTON LAKE	4909	8449	4JC14	CHELSEA	34	.	.	80	7
777	BUFFLEHEAD LAKE	4953	8411	4JC06	ROGERS	34	4.2	.	84	2
778	BUN LAKE	4933	8436	4JC03	MCEWING	34	147.8	.	84	2
779	BURNT LAKE (NL)	4903	8448	4JC14	BEATON	34	26.3	.	84	2
780	BURT LAKE	4805	8022	2JC05	BURT	36	103.5	.	80	6
781	BUTLER LAKE	4821	8017	4M	BLACK	36	.	.	82	5
782	CABOT LAKE	4745	8122	4LA01	CABOT	33	150.2	.	84	2
783	CACHEGE LAKE	4748	8312	4LE04	MCNAUGHT	31	81.0	.	84	2
784	CALCITE LAKE	4740	8040	2JD06	NICOL	36	36.6	.	80	6
785	CAMP LAKE (NL)	4851	8232	4LD01	SEATON	35	15.8	.	84	1
786	CAMP 18 LAKE (NL)	4757	8229	4LC07	WHIGHAM	31	11.0	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
762	14	8.090	1926.0	187.0	10.5	.	7.1	26.9	6.10	0.70	0.54	1.86	0.011	0.110	.
763	19	7.392	738.0	77.4	6.0	.	3.7	10.9	2.30	.	0.48	1.44	0.000	0.000	.
764	15	6.931	256.2	47.0	.	62	8.3	6.2	1.55	0.90	0.40	6.36	0.120	0.011	.
765	14	7.450	890.0	125.0	.	.	.	.	.	.	.	.	.	.	.
766	17	7.620	2804.0	273.0	8.0	.	4.6	41.8	7.80	0.90	0.68	2.35	0.003	0.014	.
767	28	8.134	1188.2	132.0	25.5	.	.	20.4	3.94	.	.	6.80	.	.	.
768	2	7.250	1374.0	114.0	.	.	.	.	.	.	.	.	.	.	.
769	28	8.432	2245.8	217.0	24.4	.	.	34.3	6.06	.	.	4.10	.	.	.
770	14	8.290	1902.0	187.0	35.5	.	10.3	28.4	6.44	0.75	0.60	3.38	0.006	0.005	.
771	17	7.350	920.0	122.0	.	.	.	.	.	.	.	.	.	.	.
772	5	7.842	804.0	97.5	27.4	.	6.4	12.9	3.04	0.70	0.24	5.99	0.014	0.004	.
773	14	8.430	2442.0	245.0	12.0	.	6.4	36.4	7.86	1.30	0.64	3.25	0.003	0.002	.
774	1	7.400	1484.0	109.0	.	.	.	.	.	.	.	.	.	.	.
775	17	7.570	1810.0	180.0	10.5	.	6.3	26.7	5.84	0.55	0.46	2.86	0.004	0.006	.
776	5	7.900	2524.0	183.0	.	.	.	.	.	.	.	.	.	.	.
777	14	8.030	2440.0	237.0	71.5	.	15.0	34.8	8.00	1.15	0.78	3.01	0.033	0.190	.
778	18	8.000	2830.0	270.0	5.0	.	2.7	37.7	8.76	1.25	1.34	2.72	0.000	0.006	.
779	17	7.800	2878.0	278.0	7.5	.	4.3	40.6	8.76	1.00	0.74	2.02	0.004	0.011	.
780	17	6.750	346.0	67.0	.	.	.	.	.	.	.	.	.	.	.
781	22	8.331	1420.4	144.0	3.3	.	.	22.4	3.63	.	.	4.00	.	.	.
782	7	8.043	1469.0	154.0	.	.	3.0	23.1	3.48	0.70	0.34	3.34	0.009	0.004	.
783	9	8.231	2236.0	216.0	8.9	.	3.2	33.9	4.42	0.95	1.34	4.94	0.000	0.005	.
784	10	6.600	658.0	111.0	.	.	.	.	.	.	.	.	.	.	.
785	30	8.307	2144.0	210.0	9.8	.	5.1	28.6	6.60	0.85	1.48	4.05	0.013	0.007	.
786	9	7.731	857.6	99.9	70.2	.	12.4	13.0	3.66	1.05	0.54	4.61	0.057	0.011	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
787	CAMP 74 LAKE (NL)	4845	8234	4LD01	LISGAR	35	14.7	.	84	1
788	CAMPBELL LAKE	4754	8105	4LA03	HALLIDAY	33	95.2	.	84	2
789	CAMPTWO LAKE	4733	8345	2BE11	FITZSIMMONS	31	93.3	.	85	2
790	CANARY LAKE	4951	8410	4JA01	ROGERS	34	4.4	.	84	2
791	CANTIN LAKE	4937	8437	4JC04	ARNOTT	34	7.3	.	84	2
792	CANTIN LAKE (NL)	4921	8211	4LF02	FAUQUIER	35	8.1	.	84	1
793	CANVASBACK LAKE (NL)	5002	8410	4JB03	238	34	2.6	.	84	2
794	CANYON LAKE (NL)	4811	8230	4LC06	IVANHOE	31	6.3	.	84	2
795	CARDINAL LAKE (NL)	5001	8410	4JB03	238	34	10.9	.	84	2
796	CAREY LAKE	4945	8402	4JB01	STODDART	34	179.8	.	78	10
797	CARLTON LAKE	4822	8140	4L	DENTON	38	.	.	82	6
798	CARMICHAEL LAKE	4910	8154	4LD02	CARMICHAEL	35	85.1	.	84	1
799	CATCHER LAKE (NL)	4808	8231	4LC06	IVANHOE	31	17.7	.	84	2
800	CAVE LAKE	4726	8221	2C	CAVELL	31	.	.	82	7
801	CHABBIE LAKE	4935	7946	4NC05	NOSEWORTHY	32	.	.	80	8
802	CHARTRAND LAKE	4752	8324	4LE01	PANET	31	94.2	.	84	2
803	CHESTER LAKE	4731	8157	4LA08	CHESTER & YEO	33	74.9	.	84	2
804	CHICOT LAKE (NL)	4747	8115	4LA03	KEMP	33	4.8	.	84	2
805	CHUTE LAKE	4741	8146	4LA05	JACK	33	5.5	.	84	2
806	CLAIRE LAKE	4937	8437	4JC04	ARNOTT	34	17.8	.	84	2
807	CLAIRE LAKE	4901	8227	4LD01	FENTON	35	36.0	.	84	1
808	CLAM LAKE	4733	8157	4LA08	CHESTER	33	87.3	.	84	2
809	CLARICE LAKE	4820	7932	4MA05	PONTIAC	36	361.3	.	82	7
810	CLAVELLE LAKE	4932	8433	4JC03	MCEWING	34	29.2	.	84	2
811	CLAW LAKE	4741	8123	4LA01	CABOT	33	223.6	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
787	29	8.167	1976.0	195.0	82.9	.	13.0	29.6	5.48	1.05	0.68	2.25	0.014	0.130	.
788	5	7.783	628.6	84.1	37.7	.	8.8	11.0	2.88	0.70	0.28	7.12	0.020	0.017	.
789	15	7.288	1037.2	118.0	.	50	7.5	18.5	3.40	1.16	0.86	5.60	0.022	0.018	.
790	14	8.110	1172.0	116.5	5.5	.	4.4	15.6	4.18	0.35	0.66	1.23	0.004	0.003	.
791	15	7.187	542.2	58.7	9.0	.	3.8	8.4	1.68	.	0.54	0.53	0.007	0.009	.
792	27	8.502	4074.4	391.0	6.8	.	3.1	54.7	13.70	2.25	1.90	7.16	0.000	0.028	.
793	12	7.950	1224.0	119.4	42.6	.	10.4	17.1	3.80	0.50	0.82	0.68	0.011	0.021	.
794	9	7.899	1096.2	114.0	-1.9	.	4.0	16.6	2.76	0.45	0.60	2.35	0.003	0.006	.
795	12	8.520	2804.0	278.0	6.1	.	4.0	33.4	12.80	1.35	1.04	8.41	0.007	0.005	.
796	.	7.800	1490.0	.	.	.	.	.	.	.	.	.	.	.	.
797	4	7.678	530.6	68.9	106.7	.	.	10.0	2.08	.	.	3.20	.	.	.
798	29	7.714	619.8	76.6	142.7	.	16.9	11.3	2.62	0.85	0.46	2.99	0.260	0.016	.
799	9	8.001	1541.8	153.0	6.4	.	5.1	19.5	5.98	0.75	0.50	2.02	0.000	0.005	.
800	26	7.036	1095.0	131.0	72.1	.	.	.	.	.	.	6.80	0.068	.	.
801	22	7.580	414.0	39.0	.	.	.	.	.	.	.	.	.	.	.
802	8	7.528	495.4	67.1	82.7	.	10.9	8.7	2.26	0.80	0.54	4.46	0.041	0.006	.
803	2	7.314	264.6	51.1	96.5	.	12.0	7.3	1.16	0.75	0.30	6.15	0.070	0.023	.
804	6	7.271	213.6	33.4	7.6	.	2.4	4.0	0.74	0.30	0.32	3.75	0.006	0.005	.
805	7	6.441	76.6	85.7	90.3	.	15.9	4.3	1.28	9.05	0.22	4.82	0.170	0.033	.
806	15	7.750	840.0	82.8	4.5	.	2.8	12.4	2.34	.	0.40	1.29	0.006	0.007	.
807	30	7.869	1083.0	118.1	130.5	.	23.5	18.3	3.92	0.90	0.74	2.67	0.039	0.008	.
808	2	7.392	232.2	46.4	34.6	.	7.6	6.4	0.92	0.70	0.36	6.62	0.035	0.003	.
809	13	7.214	296.6	.	13.9	.	.	6.6	1.46	.	.	9.00	0.035	0.013	.
810	18	7.104	19999.8	51.0	2.0	.	2.6	6.4	1.56	.	0.36	2.31	0.004	0.000	.
811	7	7.735	970.0	111.6	65.5	.	12.4	16.5	3.12	0.75	0.22	3.91	0.012	0.003	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
812	CLAY LAKE	4947	8155	4LG01	CLAY	35	23.9	.	84	1
813	CLEAR LAKE (NL)	4751	7941	2JC03	BAYLY	36	44.6	.	80	6
814	CLEAR LAKE (NL)	4819	8118	4LA02	ADAMS	38	43.2	.	84	1
815	CLEARWATER LAKE	4841	8100	4MD01	EVELYN	38	33.5	.	80	7
816	COMO LAKE	4755	8330	2BD09	STRATHEARN	31	1595.9	.	80	5
817	CONSTANCE LAKE	4948	8409	4JA01	STUDHOLME	34	477.5	.	84	2
818	COOK LAKE	4823	8118	4LA02	DELORO	38	4.4	.	84	1
819	COOK'S LAKE (NL)	4828	8127	5P	MOUNT JOY	38	.	.	82	6
820	COOKE LAKE	4736	8021	2JD04	WILLET	36	180.3	.	80	6
821	COOPER LAKE	4903	8259	4LF01	OSCAR	35	31.3	.	80	7
822	COOT LAKE (NL)	5005	8411	4JC06	238	34	9.5	.	84	2
823	COPPELL LAKE	4931	8349	4LK02	LOWTHER	34	31.0	.	84	2
824	CORINE LAKE	4933	8435	4JC03	MCEWING	34	132.8	.	84	2
825	CORNICE LAKE (NL)	4801	8229	4L	WHIGHAM	31	.	.	82	6
826	COYNE LAKE (NL)	4723	8125	4LA07	GARIBALDI	33	50.1	.	84	2
827	CRANE LAKE (NL)	5001	8410	4JB03	238	34	1.8	.	84	2
828	CRATES LAKE	4911	8116	4MD02	CLUTE	32	.	.	80	9
829	CREE LAKE	4914	8441	4JC13	HAIG	34	59.9	.	80	7
830	CREW LAKE	4927	8444	4JC12	FROST	34	56.0	.	84	2
831	CROW LAKE	4932	8436	4JC03	MCEWING	34	7.3	.	84	2
832	DANA LAKE	4823	8146	4LA04	WHITESIDE	38	294.1	.	84	2
833	DANIEL LAKE	4933	8440	4JC01	MCEWING	34	7.4	.	84	2
834	DANNY'S LAKE (NL)	4739	8042	2JD06	NICOL	36	.	.	81	8
835	DAVID LAKE	4934	8442	4JC04	FROST	34	20.6	.	84	2
836	DAY LAKE	4856	8223	4LD01	GRIFFIN	35	51.2	.	84	1

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
812	26	7.614	638.0	75.4	165.8	.	19.1	11.9	2.76	0.85	0.20	2.25	0.100	0.007	.
813	12	5.850	38.0	31.0	.	.	.	.	.	.	.	.	.	.	.
814	31	7.104	236.0	36.9	32.6	.	6.9	4.6	1.20	0.35	0.36	3.56	0.019	0.002	.
815	15	7.800	1264.0	132.0	.	.	.	.	.	.	.	.	.	.	.
816	22	7.000	450.0	76.0	.	.	.	.	.	.	.	.	.	.	.
817	14	8.440	2700.0	267.0	11.0	.	6.2	38.5	8.26	2.10	1.16	2.98	0.006	0.010	.
818	31	6.171	13.0	13.4	18.5	.	2.8	1.0	0.24	.	0.22	3.14	0.023	0.038	.
819	4	7.470	252.6	47.4	8.4	.	.	4.5	0.94	.	.	2.40	.	.	.
820	10	6.000	96.0	45.0	.	.	.	.	.	.	.	.	.	.	.
821	2	7.150	1286.0	116.0	.	.	.	.	.	.	.	.	.	.	.
822	12	8.241	3728.8	353.0	31.7	.	8.0	46.3	12.60	2.80	1.14	6.52	0.005	0.080	.
823	15	7.960	1280.0	132.0	23.0	.	8.2	19.1	4.40	0.60	0.46	2.74	0.015	0.004	.
824	18	8.080	2256.0	216.0	2.0	.	1.7	30.9	6.10	0.90	0.64	1.50	0.002	0.002	.
825	30	7.206	458.6	63.0	6.5	.	.	7.7	1.66	.	.	4.30	0.018	0.023	.
826	7	7.798	809.6	96.6	2.1	.	2.0	13.1	2.38	0.65	0.42	6.42	0.002	0.000	.
827	12	7.740	862.0	86.6	60.7	.	12.7	11.1	3.00	0.60	0.62	1.02	0.012	0.037	.
828	3	8.120	2526.0	256.0	.	.	.	.	.	.	.	.	.	.	.
829	5	7.750	1812.0	163.0	.	.	.	.	.	.	.	.	.	.	.
830	18	7.890	3102.0	298.0	23.5	.	7.8	45.6	7.86	0.70	0.86	2.76	0.004	0.043	.
831	18	6.719	215.6	27.8	3.5	.	3.1	3.2	0.80	.	0.44	1.24	0.004	0.003	.
832	4	7.940	1057.4	114.8	3.1	.	3.5	16.2	3.06	0.60	0.38	3.53	0.000	0.005	.
833	19	7.730	2774.0	266.0	24.0	.	5.2	39.9	7.96	0.60	0.76	2.41	0.004	0.069	.
834	20	7.000	176.0	73.0	.	.	.	.	.	.	.	.	.	.	.
835	19	7.530	1648.0	161.0	4.0	.	3.5	23.6	5.04	0.60	0.56	1.38	0.006	0.003	.
836	30	8.228	1752.2	174.0	44.4	.	11.1	25.4	5.60	0.80	0.74	3.34	0.010	0.005	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
837	DEER LAKE	4834	8051	4MD01	GERMAN	38	3.8	.	82	7
838	DEERFOOT LAKE	4811	8158	4LC01	KENOGAMING	38	74.0	.	84	2
839	DEPARTURE LAKE	4915	8148	4LB04	HAGGART	32	209.3	.	78	10
840	DERNIERE LAKE	4730	8143	4LA08	VROOMAN	33	39.2	.	84	2
841	DEXTER LAKE	4801	8108	4LA03	ZAVITZ	38	24.8	.	84	1
842	DIVIDING LAKE	4730	8150	4LA08	CHESTER	33	124.7	.	78	10
843	DORMAN LAKE	4752	8353	2BD09	PETERS	31	13.4	.	85	2
844	DOUGLAS LAKE	4932	8443	4JC04	FROST	34	72.9	.	84	2
845	DOUGLAS LAKE (NL)	4944	8221	4LF03	GUILFOYLE	35	54.7	.	84	1
846	DOWSLEY LAKE	4923	8423	4JC07	DOWSLEY	34	.	.	80	7
847	DUCHABANI LAKE	4724	8133	4LA06	HENNESSY	33	255.8	.	84	2
848	DUKE LAKE	4722	8151	2CE10	ARDEN	33	193.3	.	80	6
849	DUMBELL LAKE	4753	8105	4LA03	HALLIDAY	33	173.2	.	84	2
850	DUMBELL LAKE	4843	8305	4LL02	MONS	35	92.1	.	84	1
851	DUNCAN LAKE	4746	8058	2JD10	KNIGHT	36	1132.0	.	78	10
852	DUNGAREE LAKE (INDIAN)	4802	8136	4LA04	MCBRIDE & HASSA	38	50.2	.	84	2
853	EAGLE LAKE	4959	8410	4JB03	238	34	5.7	.	84	2
854	EAST TRUMP LAKE	4941	8219	4LF01	PEARCE	35	15.8	.	84	1
855	EDGAR LAKE	5022	8023	4NC22	UNORGANIZED	32	.	.	80	8
856	EIDER LAKE (NL)	5001	8407	4JB31	238	34	15.4	.	84	2
857	ELBOW LAKE (NL)	4802	8152	4LB10	REGAN	33	12.6	.	84	2
858	ELEPHANT HEAD LAKE	4735	8122	4LA01	CONNAUGHT-MIRAM	33	109.1	.	84	2
859	ELK LAKE	4744	8020	2JD01	JAMES	36	523.4	.	78	10
860	ELONGATE LAKE	4800	8228	4L	SILK	31	.	.	82	6
861	EMERALD LAKE	4753	8313	4LE05	BORDEN	31	50.3	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
837	12	5.539	0.0	.	6.7	.	.	0.6	0.24	.	.	3.30	0.016	0.041	.
838	4	7.706	655.8	82.5	105.1	.	16.2	11.6	3.02	0.70	0.44	3.86	0.035	0.007	.
839	.	7.400	617.0	.	.	.	.	.	.	.	.	.	.	.	.
840	2	8.115	1560.2	170.0	3.0	.	1.6	23.8	4.38	1.05	0.58	7.72	0.005	0.000	.
841	31	8.057	1417.2	152.0	55.5	.	8.4	22.1	5.02	1.05	0.26	5.67	0.010	0.026	.
842	.	7.300	453.0	.	.	.	.	.	.	.	.	.	.	.	.
843	15	7.327	1075.2	135.0	.	8	1.8	19.3	3.20	3.06	0.68	4.63	0.000	0.006	.
844	19	8.070	2806.0	273.0	3.5	.	2.0	36.5	10.50	1.05	1.46	4.92	0.002	0.004	.
845	27	7.765	955.2	105.6	151.6	.	23.0	16.0	3.58	0.70	0.58	2.08	0.045	0.019	.
846	11	7.800	1044.0	109.0	.	.	.	.	.	.	.	.	.	.	.
847	7	7.229	244.2	51.5	36.6	.	7.7	5.6	1.56	0.95	0.52	7.31	0.016	0.003	.
848	2	6.500	232.0	56.0	.	.	.	.	.	.	.	.	.	.	.
849	5	7.813	661.6	94.2	21.3	.	6.8	9.7	4.34	0.95	0.32	8.52	0.013	0.005	.
850	29	8.287	2516.0	244.0	72.0	.	13.3	35.4	8.56	1.00	0.62	3.44	0.024	0.010	.
851	.	7.400	598.0	.	.	.	.	.	.	.	.	.	.	.	.
852	1	8.023	842.4	134.0	44.5	.	9.2	15.1	3.26	5.25	0.36	5.56	0.019	0.007	.
853	12	8.470	3400.0	330.0	4.7	.	2.1	45.4	13.40	1.25	0.92	12.22	0.005	0.000	.
854	27	8.082	1041.8	108.4	0.0	.	3.6	15.2	3.02	0.35	0.40	2.52	0.045	0.002	.
855	23	8.030	846.0	98.0	.	.	.	.	.	.	.	.	.	.	.
856	12	7.258	628.2	75.3	168.1	.	20.5	10.6	2.86	0.55	0.78	1.60	0.089	0.054	.
857	1	8.164	1093.6	121.4	2.5	.	5.5	17.6	2.88	0.75	0.34	4.81	0.008	0.024	.
858	7	7.794	847.8	107.1	13.5	.	5.1	14.6	2.64	0.80	0.30	8.20	0.013	0.000	.
859	.	7.450	619.0	.	.	.	.	.	.	.	.	.	.	.	.
860	30	8.424	1982.4	190.0	5.0	.	.	28.1	5.50	.	.	3.80	0.015	0.033	.
861	9	8.285	2466.0	250.0	4.1	.	1.3	37.6	5.46	1.45	1.78	6.98	0.000	0.003	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH	DAY
862	EMOND LAKE (NL)	4937	8440	4JC04	ARNOTT	34	7.7	.	84	2	19
863	ENID LAKE	4832	8154	4LB09	ENID	38	69.0	.	84	2	4
864	ERIC LAKE	4937	8439	4JC04	ARNOTT	34	19.4	.	84	2	19
865	ESKER LAKE (NL)	4803	8231	4L	IVANHOE	31	.	.	82	6	30
866	EVA LAKE (NL)	4915	8215	4LD01	NANSEN	35	13.0	.	84	1	27
867	FANNING LAKE	4920	8212	4LD03	FAUQUIER	35	70.5	.	82	5	28
868	FAWCETT LAKE	4732	8107	2JD08	FAWCETT	33	.	.	80	5	27
869	FERRIER LAKE	4802	8118	4MD05	ENGLISH	38	207.2	.	80	7	19
870	FIRTH LAKE	4740	8052	2JD08	MILNER	36	433.8	.	78	10	.
871	FISHER LAKE	4935	8434	4JC08	ARNOTT	34	17.5	.	84	2	15
872	FIVE PINES LAKE	4944	8220	4LF03	GUILFOYLE	35	38.5	.	80	6	28
873	FLAME LAKE	4717	8311	2CB02	DEANS	31	.	.	80	8	13
874	FLAMINGO LAKE	4959	8410	4JC06	238	34	8.1	.	84	2	12
875	FLETT LAKE	4933	8439	4JC04	MCEWING	34	10.5	.	84	2	18
876	FLORANNA LAKE	4807	8319	4LE08	FLORANNA	31	145.6	.	80	5	19
877	FLYLINE LAKE (NL)	4736	8305	4LC06	DE GAULLE	31	16.0	.	84	2	9
878	FLYNN LAKE	4824	8119	4LA02	DELORO	38	12.3	.	84	1	31
879	FOOT LAKE	4750	8312	4LE04	MCNAUGHT	31	71.1	.	84	2	9
880	FORDE LAKE	4944	8415	4JA01	STUDHOLME	34	66.8	.	84	2	14
881	FOURNIER LAKE	4936	8439	4JC01	ARNOTT	34	1.4	.	84	2	19
882	FOX LAKE	4953	8352	4JB02	BANNERMAN	34	179.0	.	84	2	11
883	FOY LAKE	4758	8113	4LA03	SEMPLE	38	61.0	.	84	2	6
884	FRASER LAKE	4933	8455	4JC09	HIAWATHA	34	144.5	.	84	2	19
885	FREDDIE LAKE	4935	8431	4JC08	ARNOTT	34	14.4	.	84	2	15
886	FREELE LAKE	4907	8026	4MA02	FREELE	32	107.2	.	80	4	25

OBS	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
862	7.250	958.0	95.9	4.5	.	3.2	13.5	2.90	0.30	0.52	1.67	0.000	0.000	.
863	7.601	529.0	67.4	63.6	.	10.9	9.2	1.86	0.70	0.50	3.44	0.034	0.060	.
864	7.740	2166.0	215.0	4.0	.	3.4	29.9	7.20	0.60	1.14	2.99	0.000	0.003	.
865	5.235	3.0	12.0	9.2	.	.	0.4	0.20	.	.	1.70	0.013	0.040	.
866	7.866	753.8	86.9	21.0	.	7.4	11.5	2.56	0.45	0.64	3.59	0.031	0.049	.
867	8.091	1136.4	126.6	68.3	.	.	17.9	4.31	.	.	3.80	.	.	.
868	7.600	1364.0	130.0	.	.	.	.	.	.	.	.	.	.	.
869	8.200	1776.0	151.0	.	.	.	.	.	.	.	.	.	.	.
870	7.270	271.0	.	.	.	.	.	.	.	.	.	.	.	.
871	8.470	4096.0	391.0	6.5	.	1.8	54.7	14.90	1.40	1.66	7.38	0.000	0.017	.
872	6.700	730.0	102.0	.	.	.	.	.	.	.	.	.	.	.
873	6.750	234.0	51.0	.	.	.	.	.	.	.	.	.	.	.
874	8.180	4802.0	480.0	1.8	.	0.6	62.7	19.40	1.85	1.18	13.50	0.000	0.005	.
875	7.130	1258.0	123.3	8.5	.	11.0	18.0	3.84	0.35	0.38	0.93	0.011	0.013	.
876	7.500	648.0	100.0	.	.	.	.	.	.	.	.	.	.	.
877	7.990	1355.0	142.0	4.6	.	6.9	22.0	2.74	1.00	0.74	5.06	0.004	0.007	.
878	8.086	1466.4	154.0	77.8	.	11.7	22.7	5.20	1.00	0.46	4.17	0.018	0.060	.
879	8.264	2330.0	226.0	1.0	.	2.5	36.5	3.66	1.00	1.18	3.30	0.000	0.004	.
880	8.480	2644.0	267.0	27.5	.	8.6	37.4	8.66	3.15	0.48	3.29	0.010	0.010	.
881	7.280	1212.0	118.7	11.5	.	4.8	17.6	3.26	.	0.70	0.89	0.006	0.003	.
882	7.955	1302.4	133.0	86.1	.	14.4	19.6	5.08	0.85	0.30	1.95	0.012	0.007	.
883	7.990	1019.0	115.1	64.6	.	12.5	15.0	4.64	0.80	0.48	4.39	0.011	0.075	.
884	7.540	2046.0	206.0	49.5	.	10.9	33.6	5.70	0.65	0.34	2.82	0.012	0.044	.
885	8.390	3414.0	322.0	25.0	.	5.9	46.8	11.30	1.10	1.08	2.49	0.006	0.130	.
886	5.750	162.0	33.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
887	FRIDAY LAKE	4933	8438	4JC03	MCEWING	34	13.0	.	84	2
888	FRIGID LAKE	4741	8144	4LA05	JACK	33	8.8	.	84	2
889	FRITZ LAKE (NL)	4917	8437	4JC01	HAIG	34	44.3	.	84	2
890	FROUDE LAKE (NL)	4955	8008	4NC03	UNORGANIZED	32	5.8	.	80	4
891	FUSHIMI LAKE	4950	8354	4LK06	STODDART	34	1231.1	27948.7	82	5
892	GADWALL LAKE (NL)	5003	8409	4JB03	238	34	1.5	.	84	2
893	GAGNON LAKE	4939	8435	4JC04	ARNOTT	34	8.1	.	84	2
894	GAGNON LAKE (NL)	4923	8211	4LF02	FAUQUIER	35	1.8	.	84	1
895	GALLINULE LAKE	4955	8410	4JC06	238	34	7.8	.	84	2
896	GALORE LAKE (NL)	4823	8119	4LA02	DELORO	38	4.2	.	84	1
897	GANDET LAKE	4725	8221	2C	CAVELL	31	.	.	82	7
898	GARNET LAKE (CLEAR)	4929	8446	4JC04	FROST	34	123.9	.	84	2
899	GEORGE LAKE (NL)	4940	8016	4NB01	UNORGANIZED	32	153.1	.	80	7
900	GEORGE LAKE (NL)	4759	8155	4LB10	REGAN	33	28.4	.	84	2
901	GOLDIE LAKE	4934	8443	4JC04	FROST	34	19.4	.	84	2
902	GOODFISH LAKE	4812	8001	2JC01	BERNHARDT	36	29.8	.	82	5
903	GOUIN LAKE	4755	8131	4LA01	EMERALD	33	104.4	.	84	2
904	GOVERNMENT LAKE	4912	8453	4JC13	LESSARD	34	259.2	.	80	7
905	GRASSY LAKE	4748	8114	4LA03	KEMP	33	172.7	.	80	5
906	GRAVEL LAKE	4921	8222	4LF01	O'BRIAN	35	36.5	.	82	5
907	GRAVEL PIT LAKE (NL)	4917	8309	4LL01	FERGUS	35	5.4	.	84	1
908	GREBE LAKE (NL)	5003	8409	4JB03	238	34	2.8	.	84	2
909	GREEN LAKE	4834	8052	4MD01	GERMAN	38	6.0	.	79	8
910	GREEN LAKE (NL)	4904	8458	4JC02	BAYFIELD	34	17.3	.	84	2
911	GREEN TEAL LAKE (NL)	5004	8410	4JB03	238	34	3.6	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
887	18	7.820	2260.0	220.0	4.0	.	4.0	29.4	7.60	0.80	1.08	2.28	0.000	0.004	.
888	7	7.111	216.0	46.1	115.0	.	16.1	5.6	1.42	1.00	0.28	5.02	0.053	0.064	.
889	17	7.730	1678.0	170.0	6.0	.	12.0	25.5	6.02	0.55	0.28	3.93	0.007	0.002	.
890	21	5.900	160.0	30.0	.	.	.	.	.	.	.	.	.	.	.
891	27	8.001	967.2	104.1	95.9	.	.	14.8	3.82	.	.	2.10	.	.	.
892	12	8.020	1002.0	103.0	20.6	.	5.7	13.4	3.28	0.30	0.86	.	0.003	0.024	.
893	15	8.300	2580.0	259.0	4.5	.	2.6	35.7	10.80	0.90	1.28	3.53	0.003	0.005	.
894	28	8.478	3865.4	367.0	21.3	.	6.3	55.8	11.80	2.00	0.76	5.53	0.006	0.073	.
895	14	8.420	3188.0	308.0	55.0	.	12.1	45.8	10.70	1.60	0.72	4.50	0.027	0.045	.
896	31	7.578	471.2	61.6	46.9	.	9.8	7.6	2.30	0.70	0.66	3.51	0.018	0.005	.
897	26	6.893	139.0	41.0	7.4	.	.	4.2	1.06	.	.	7.80	0.010	.	.
898	18	8.080	2846.0	274.0	8.5	.	4.6	39.2	8.50	1.00	0.82	3.63	0.003	0.003	.
899	9	7.050	140.0	32.0	.	.	.	.	.	.	.	.	.	.	.
900	6	7.789	798.4	96.3	3.7	.	4.6	13.8	2.14	0.70	0.40	6.73	0.017	0.007	.
901	19	7.790	2302.0	223.0	6.5	.	3.1	32.0	6.70	0.75	0.74	1.98	0.002	0.005	.
902	28	7.994	838.0	142.0	34.2	.	.	16.9	4.19	.	.	20.30	.	.	.
903	2	7.766	160.0	91.7	85.0	.	12.7	12.1	3.22	1.10	0.42	7.63	0.055	0.009	.
904	5	7.350	1206.0	116.0	.	.	.	.	.	.	.	.	.	.	.
905	29	7.300	692.0	92.0	.	.	.	.	.	.	.	.	.	.	.
906	28	8.364	1827.0	180.0	11.8	.	.	30.6	2.82	.	.	3.70	.	.	.
907	29	7.725	1305.8	135.0	42.0	.	14.2	19.2	4.38	0.75	0.82	2.38	0.035	0.047	.
908	12	7.770	899.0	91.7	17.6	.	8.5	12.6	2.72	0.40	0.60	0.80	0.014	0.014	.
909	.	8.200	663.0	67.0	.	.	.	.	.	.	.	.	.	.	.
910	17	8.000	3280.0	309.0	3.0	.	2.9	40.2	12.90	1.35	1.62	3.52	0.000	0.005	.
911	12	8.037	3294.0	307.0	30.8	.	6.8	41.4	10.10	1.40	0.76	3.00	0.010	0.100	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
912	GRIFFIN LAKE (CLEAR)	4614	8145	2C	MERRITT	35	.	.	82	5
913	GROUNDHOG LAKE	4806	8215	4L	KEITH	31	.	.	82	6
914	GUILFOYLE LAKE	4945	8221	4LL01	GUILFOYLE	35	731.8	.	80	6
915	GURNEY LAKE	4935	8210	4LF02	GURNEY	35	142.6	.	80	6
916	HADDOW LAKE	4903	8025	4MA02	SWEATMAN	32	18.1	.	80	4
917	HAKEN LAKE	4906	8442	4JC01	LARKIN	34	97.2	.	84	2
918	HALFMOON LAKE	4836	8138	4LB09	ROBB	38	52.2	.	84	2
919	HALLIDAY LAKE	4753	8112	4LA03	HALLIDAY	33	.	.	80	5
920	HALSEY LAKE	4744	8309	4LC06	HALSEY	31	87.5	.	84	2
921	HANGINGSTONE LAKE	4734	8048	2JD07	LEITH	36	.	.	80	6
922	HANOVER LAKE	4736	8135	4LA06	BRUNSWICK & GRO	33	78.6	.	84	2
923	HARRY LAKE	4800	8229	4LC06	WHIGHAM	31	157.0	.	82	6
924	HART LAKE	4944	8418	4JC06	GILL	34	19.4	.	84	2
925	HARVEY LAKE (NL)	4736	8305	4LC06	DE GAULLE	31	8.0	.	84	2
926	HASSARD LAKE	4802	8130	4LA03	HASSARD	38	69.2	.	84	1
927	HASTINGS LAKE	4917	8213	4LD03	NANSEN	35	30.1	.	80	7
928	HAZEN LAKE	4753	8137	4LA04	HAZEN	33	258.5	.	78	10
929	HEART LAKE	4835	8053	4MD01	GERMAN	38	1.3	.	82	7
930	HERON LAKE	4959	8409	4JB03	238	34	8.5	.	84	2
931	HIAWATHA LAKE	4931	8501	4JC11	HIAWATHA	34	156.4	.	84	2
932	HILL LAKE	4744	8003	2JC05	BRYCE	36	.	.	80	6
933	HILLARY LAKE	4813	8148	4LA04	HILLARY	38	.	.	84	2
934	HOGSBACK LAKE (NL)	4819	8227	4LC06	OATES	31	26.2	.	84	2
935	HOLBROOKE LAKE	4755	8102	4LA03	MIDLOTHIAN	36	35.2	.	84	2
936	HOOK LAKE	4934	8437	4JC03	MCEWING	34	20.7	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
912	19	7.390	580.6	119.0	10.3	.	.	12.4	1.88	.	.	10.80	.	.	.
913	29	7.657	707.8	85.0	48.6	.	.	11.9	2.50	.	.	5.60	0.047	0.034	.
914	28	7.750	1600.0	145.0	.	.	.	.	.	.	.	.	.	.	.
915	30	7.250	996.0	122.0	.	.	.	.	.	.	.	.	.	.	.
916	14	6.300	256.0	41.0	.	.	.	.	.	.	.	.	.	.	.
917	17	7.780	2336.0	234.0	18.5	.	7.1	34.0	7.16	1.05	0.40	4.24	0.006	0.006	.
918	4	8.224	1461.8	146.0	36.7	.	9.6	21.1	4.30	0.75	0.48	3.63	0.019	0.087	.
919	30	7.900	1388.0	109.0	.	.	.	.	.	.	.	.	.	.	.
920	9	7.958	1158.8	128.2	92.6	.	15.8	17.2	3.92	1.80	1.84	4.64	0.014	0.110	.
921	14	6.500	206.0	50.0	.	.	.	.	.	.	.	.	.	.	.
922	2	7.007	126.2	42.0	50.3	.	9.0	5.2	1.00	0.75	0.32	8.53	0.076	0.003	.
923	30	7.955	831.4	92.0	6.2	.	.	13.1	2.36	.	.	3.00	0.008	0.017	.
924	14	8.470	2900.0	282.0	4.5	.	2.4	40.7	9.56	0.90	1.04	5.32	0.006	0.008	.
925	9	7.957	1167.6	124.1	.	.	5.6	18.5	2.58	1.00	0.80	4.46	0.003	0.003	.
926	31	7.268	290.4	52.9	150.4	.	16.5	7.2	1.86	0.75	0.30	5.63	0.140	0.014	.
927	2	6.900	1646.0	142.0	.	.	.	.	.	.	.	.	.	.	.
928	.	6.980	201.0	.	.	.	.	.	.	.	.	.	.	.	.
929	12	6.376	47.0	.	16.1	.	.	1.3	0.30	.	.	2.70	0.026	0.018	.
930	12	8.450	2568.0	259.0	17.2	.	7.0	35.8	10.10	1.05	0.74	3.71	0.004	0.002	.
931	16	7.630	1574.0	158.0	47.0	.	11.2	24.4	4.88	0.50	0.32	3.37	0.009	0.005	.
932	10	8.050	2154.0	222.0	.	.	.	.	.	.	.	.	.	.	.
933	1	7.712	422.0	54.0	18.5	.	7.1	7.2	1.52	0.40	0.30	2.20	0.014	0.025	.
934	9	7.984	1286.8	132.0	-0.7	.	3.2	16.9	5.20	0.30	0.44	3.35	0.002	0.000	.
935	1	7.509	458.8	68.5	14.8	.	5.2	8.6	2.20	0.60	0.24	7.84	0.000	0.022	.
936	18	7.550	1514.0	151.0	5.5	.	4.2	22.0	4.68	0.45	0.34	2.55	0.003	0.005	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
937	HOPE LAKE (NL)	4823	8126	4LA03	OGDEN	38	5.9	.	84	2
938	HORNEPAYNE LAKE	4909	8450	4JC13	CHELSEA	34	34.6	.	84	2
939	HORNET LAKE	4752	8155	4LA10	WIGLE	33	3.8	.	84	2
940	HORSESHOE LAKE (NL)	4828	8128	4L	MOUNTJOY	38	.	.	82	6
941	HORWOOD LAKE	4800	8220	4LC02	HORWOOD	31	5545.8	.	82	6
942	HOTSTONE LAKE	4744	8248	4LC04	GREENLAW	31	43.9	.	84	2
943	HOUSTON LAKE	4740	8107	2JD08	MACMURCHY	33	103.7	.	78	10
944	HOWARD LAKE	4814	7949	2JC07	ARNOLD	36	126.5	.	82	5
945	HOWELLS LAKE	4957	8159	4LG11	HOWELLS	35	58.8	.	84	1
946	HUMBERSTONE LAKE	4930	8442	4JC04	FROST	34	8.1	.	84	2
947	HUTT LAKE	4756	8105	4LA03	HUTT & MONTROSE	38	92.7	.	84	2
948	INSECT LAKE	4934	8440	4JC04	MCEWING	34	25.6	.	84	2
949	IRENE LAKE	4731	8144	4LA08	BENNEWEIS	33	10.9	.	84	2
950	IRISH LAKE	4942	8405	4JA01	NASSAU	34	153.1	.	84	2
951	IRRIGATION LAKE	4834	8053	4M	GERMAN	38	.	.	82	7
952	ISLAND LAKE (NL)	4833	8052	4MD01	GERMAN	38	9.4	.	82	7
953	IVANHOE LAKE	4806	8235	4LC06	IVANHOE	31	1013.8	.	80	5
954	JANET LAKE	4829	8153	4LB09	ENID	38	56.0	.	84	2
955	JANUS LAKE	4917	8404	4LK09	TALBOT	34	21.9	.	84	2
956	JAW LAKE	4932	8441	4JC04	MCEWING	34	30.8	.	84	2
957	JENNIE LAKE	4757	8322	4LE06	D'ARCY	31	.	.	80	5
958	JIG LAKE	4931	8442	4JC04	FROST	34	40.9	.	84	2
959	JOE LAKE (NL)	4952	8335	4LK06	RITCHIE	34	33.0	.	84	2
960	JOHNSTON LAKE (NL)	4935	8432	4JC08	ARNOTT	34	8.9	.	84	2
961	JOWSEY LAKE	4822	8144	4LA04	CARSCALLEN	38	187.9	.	80	7

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
937	5	8.275	2234.0	225.0	25.8	.	6.4	35.7	5.78	0.90	0.32	4.49	0.005	0.061	.
938	17	7.270	2246.0	225.0	47.5	.	12.5	33.3	7.00	0.70	1.08	2.66	0.006	0.037	.
939	6	7.647	524.8	61.0	6.4	.	3.5	7.8	1.36	0.50	0.36	3.03	0.007	0.009	.
940	4	7.000	553.2	70.8	9.8	.	.	9.4	1.59	.	.	2.50	.	.	.
941	29	7.350	665.2	82.3	48.2	.	.	11.7	2.44	.	.	5.60	0.052	0.025	.
942	9	7.790	804.6	97.1	31.4	.	8.0	13.7	2.64	0.70	0.34	6.15	0.005	0.004	.
943	.	7.720	760.0	.	.	.	.	.	.	.	.	.	.	.	.
944	28	.	19999.8	55.5	64.3	.	.	7.2	1.77	.	.	7.60	.	.	.
945	27	.	4055.4	382.0	6.8	.	2.0	56.8	13.30	1.60	1.06	7.07	0.000	0.078	.
946	18	6.552	125.6	19.5	6.0	.	5.2	1.7	0.50	.	0.46	0.90	0.006	0.004	.
947	5	7.767	613.0	84.0	16.9	.	6.8	10.5	2.64	0.75	0.24	7.63	0.010	0.004	.
948	19	7.670	2804.0	273.0	6.0	.	3.5	38.9	9.20	0.80	1.04	3.17	0.004	0.021	.
949	2	8.079	1476.2	163.0	14.1	.	2.7	23.0	4.10	1.05	0.62	7.18	0.008	0.002	.
950	14	7.430	630.0	78.8	352.0	.	58.0	12.5	3.88	1.25	0.24	2.49	0.180	0.210	.
951	12	7.999	1546.6	.	4.2	.	.	22.7	4.04	.	.	3.70	0.013	0.004	.
952	12	7.824	1027.0	.	9.3	.	.	15.8	2.60	.	.	2.50	0.100	0.007	.
953	15	7.600	870.0	102.0	.	.	.	.	.	.	.	.	.	.	.
954	4	7.901	832.6	94.2	34.3	.	8.5	14.0	2.50	0.65	0.54	3.95	0.011	0.011	.
955	15	8.100	1436.0	144.0	164.0	.	31.5	22.1	5.90	0.70	0.58	1.95	0.054	0.058	.
956	19	7.770	2156.0	206.0	5.5	.	4.0	29.4	7.66	0.65	0.76	1.15	0.003	0.004	.
957	19	7.200	514.0	76.0	.	.	.	.	.	.	.	.	.	.	.
958	18	8.130	2644.0	254.0	2.5	.	2.1	34.1	9.40	1.05	1.52	3.17	0.003	0.002	.
959	11	7.136	1810.6	180.0	177.0	.	22.0	25.8	6.10	1.25	0.52	0.61	0.024	0.250	.
960	15	5.857	26.4	12.7	10.0	.	6.0	0.9	0.22	.	0.26	1.68	0.012	0.018	.
961	17	7.300	638.0	87.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
962	JUNCTION LAKE	4758	8104	4LA03	MONTROSE	36	51.8	.	84	2
963	KABINAKAGAMI LAKE	4854	8425	4JA01	LIZAR	34	12026.1	.	80	7
964	KAMISKOTIA LAKE	4834	8138	4L	ROBB	38	.	.	82	6
965	KAPUSKASING LAKE	4830	8257	4LE01	KAPUSKASING	31	1870.7	.	80	8
966	KASASNAY LAKE (UPPER)	4757	8156	4LA10	REGAN	33	131.7	.	84	2
967	KASAWAY LAKE	4755	8156	4LA10	WIGLE & REGAN	33	240.1	.	84	2
968	KATAGI LAKE	4754	8159	4LA10	WIGLE & REGAN	33	247.6	.	84	2
969	KATHLEEN LAKE	4759	8355	2BD09	D'AVAGOUR	31	517.0	.	85	2
970	KATODAWA LAKE	4751	8148	4LA09	MIDDLEBORO	33	162.7	.	80	5
971	KEARN LAKE (NL)	4755	8309	4LE04	BORDEN	31	10.7	.	84	2
972	KEENOA LAKE	4859	8228	4LD01	FENTON	35	409.1	.	80	6
973	KEITH LAKE	4811	8218	4LC02	KEITH	31	158.1	.	82	6
974	KEITH LAKE	4819	7946	4MA05	CLIFFORD	36	68.0	.	82	7
975	KENETOGAMI LAKE	4747	8138	4LA05	STETHAM	33	158.6	.	80	6
976	KENNEDY LAKE (NL)	4741	8312	4LE04	HALSEY	31	17.8	.	84	2
977	KENOGAMI LAKE	4806	8014	2JC01	EBY	36	876.6	.	78	10
978	KETCHINI LAKE	4751	8155	4LA10	WIGLE	33	186.5	.	84	2
979	KETCHIWABOOSE LAKE	4744	8126	4LA01	CABOT	33	72.5	.	80	5
980	KILDEER LAKE (NL)	5004	8409	4JB03	238	34	2.1	.	84	2
981	KINGFISHER LAKE	4958	8409	4JB03	238	34	13.8	.	84	2
982	KINOGAMI LAKE	4753	8013	2JC05	SHARPE	36	.	.	81	8
983	KLUCK LAKE	4919	8211	4LD01	FAUQUIER	35	6.0	.	84	1
984	KNIGHT LAKE	5010	8017	4NC03	UNORGANIZED	32	268.8	.	80	8
985	KNOTHOLE LAKE	4743	8128	4LA01	TOGO	33	4.0	.	84	2
986	KUSHOG LAKE (LONG)	4755	8015	2JC05	SHARPE	36	743.0	.	82	5

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
962	5	7.813	729.0	93.2	37.7	.	9.2	12.3	2.86	0.85	0.36	6.83	0.021	0.056	.
963	11	7.700	1144.0	122.0	.	.	.	.	.	.	.	.	.	.	.
964	4	7.621	584.2	107.0	64.0	.	.	14.2	3.37	.	.	15.60	.	.	.
965	14	7.750	982.0	132.0	.	.	.	.	.	.	.	.	.	.	.
966	6	8.102	1341.6	147.0	9.5	.	3.4	21.0	4.06	0.90	0.50	7.86	0.006	0.002	.
967	6	7.782	676.2	86.8	38.5	.	6.6	11.6	2.40	0.80	0.48	6.99	0.044	0.000	.
968	6	7.283	213.8	43.1	59.5	.	8.9	5.0	1.32	0.65	0.40	6.22	0.073	0.000	.
969	15	7.262	429.8	61.0	.	26.5	5.4	8.1	1.70	0.96	0.54	4.97	0.019	0.006	.
970	28	6.850	734.0	118.0	.	.	.	.	.	.	.	.	.	.	.
971	9	8.152	2202.0	225.0	1.9	.	4.4	32.2	5.84	1.50	1.68	5.37	0.000	0.085	.
972	30	7.100	736.0	105.0	.	.	.	.	.	.	.	.	.	.	.
973	29	7.455	602.6	78.0	8.6	.	.	10.7	2.66	.	.	4.70	0.030	.	.
974	13	7.496	606.4	.	64.1	.	.	10.6	2.80	.	.	8.90	0.110	0.177	.
975	1	6.250	154.0	37.0	.	.	.	.	.	.	.	.	.	.	.
976	9	7.958	1087.2	118.6	.	.	5.6	17.3	2.78	1.20	1.08	6.90	0.003	0.002	.
977	.	7.580	578.0	.	.	.	.	.	.	.	.	.	.	.	.
978	6	7.758	624.0	82.0	30.9	.	6.0	10.6	2.28	0.80	0.44	6.91	0.008	0.000	.
979	29	7.850	882.0	114.0	.	.	.	.	.	.	.	.	.	.	.
980	12	8.279	4150.8	377.0	74.6	.	9.2	54.7	13.60	1.95	0.70	1.63	0.005	.	.
981	12	8.130	4994.0	499.0	3.3	.	0.6	64.3	19.30	1.90	1.14	12.48	0.008	0.002	.
982	14	8.100	1420.0	138.0	.	.	.	.	.	.	.	.	.	.	.
983	27	8.405	2795.8	289.0	11.5	.	5.6	40.5	7.76	3.05	0.78	2.29	0.011	0.028	.
984	23	7.510	346.0	49.0	.	.	.	.	.	.	.	.	.	.	.
985	7	7.814	912.4	102.1	9.0	.	3.3	14.4	2.40	0.55	0.58	3.27	0.004	0.004	.
986	27	.	19999.8	99.0	97.0	.	.	13.9	3.41	.	.	6.30	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH	DAY
987	KWITOSSE LAKE	4747	8123	4LA03	BURROWS	33	19.3	.	84	2	7
988	LA VIOLLETTE LAKE	4834	8052	4M	GERMAN	38	.	.	82	7	12
989	LAC DES ISLES LAKE (NL)	4929	8234	4LF03	WILLIAMSON	35	33.9	.	84	1	27
990	LAC STE. THERESE	4947	8339	4L	CASGRAIN	34	.	.	82	5	28
991	LAIDLAW LAKE	4856	8148	4LB05	KIRKLAND	32	171.4	.	84	1	29
992	LAKE (NL)	4801	8227	4LC02	SILK	31	.	.	80	5	15
993	LAKE ABITIBI	4842	7945	4MA01	KERRS	32	.	.	80	4	18
994	LAKE PLACID #7 (NL)	4901	8450	4JC14	BAYFIELD	34	131.0	.	84	2	17
995	LAKE 11 (NL)	4819	8134	4LA04	THORNLOE	38	.	.	80	7	17
996	LAKE 6 (NL)	4955	8200	4LG15	HOWELLS	35	.	.	80	6	2
997	LAMOTTE LAKE	4745	8140	4LA05	NOBLE	33	131.3	1968.2	82	7	14
998	LAPWORTH LAKE	4933	8434	4JC03	MCEWING	34	208.2	.	84	2	18
999	LARDER LAKE	4805	7938	2JC04	MCGARRY	36	3706.4	.	82	7	13
1000	LARKIN LAKE	4908	8439	4JC01	LARKIN	34	334.5	.	84	2	17
1001	LASCELLES LAKE	4908	8432	4JC01	LASCELLES	34	447.5	.	84	2	17
1002	LEAF LAKE	4930	8441	4JC03	MCEWING	34	59.9	.	84	2	18
1003	LEAST LAKE	4736	8313	2BE10	NIMITZ	31	43.5	.	78	6	.
1004	LEBLANC LAKE	4727	8220	2C	CAREW	31	.	.	82	7	26
1005	LEFT LAKE	4813	8147	4LA04	HILLARY	38	56.9	.	84	2	1
1006	LEG OF LAMB LAKE	4834	8052	4MD01	GERMAN	38	7.9	.	82	7	12
1007	LESSARD LAKE	4914	8504	4JC11	LESSARD	34	161.9	.	84	2	16
1008	LEWIS LAKE	4937	8436	4JC04	ARNOTT	34	7.7	.	84	2	15
1009	LILLABELLE LAKE	4906	8102	4MC01	GLACKMEYER	32	170.4	.	82	5	25
1010	LIPSETT LAKE	4820	8043	4MB02	TIMMINS	38	95.0	.	80	7	15
1011	LISGAR LAKE	4848	8232	4LD01	LISGAR	35	47.4	.	80	6	30

OBS	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
987	7.353	407.6	57.3	94.6	.	1.9	7.4	1.26	0.25	0.32	5.56	0.005	0.017	.
988	7.635	745.8	.	4.6	.	.	12.2	1.70	.	.	3.10	0.055	0.004	.
989	8.145	1516.2	154.0	59.8	.	11.8	22.1	5.12	0.95	0.56	2.97	0.051	0.014	.
990	8.031	1008.0	105.9	113.7	.	.	15.8	3.82	.	.	2.50	.	.	.
991	7.868	1233.2	132.0	108.3	.	12.8	19.7	3.72	1.00	0.46	3.02	0.030	0.005	.
992	7.400	1026.0	87.0	.	.	.	.	.	.	.	.	.	.	.
993	7.300	878.0	108.0	.	.	.	.	.	.	.	.	.	.	.
994	7.780	2398.0	235.0	6.5	.	4.1	37.0	6.16	0.75	0.48	2.45	0.004	0.021	.
995	7.900	1826.0	174.0	.	.	.	.	.	.	.	.	.	.	.
996	5.650	32.0	22.0	.	.	.	.	.	.	.	.	.	.	.
997	7.503	548.0	.	70.9	.	.	8.8	2.32	.	.	4.80	0.046	0.150	.
998	8.070	1994.0	192.0	6.0	.	3.3	27.3	5.50	0.80	0.58	1.79	0.000	0.003	.
999	7.724	744.0	.	19.8	.	.	15.2	4.42	.	.	22.50	0.022	0.006	.
1000	7.670	2954.0	290.0	38.5	.	8.8	40.9	9.40	1.15	0.62	5.20	0.013	0.020	.
1001	7.500	1384.0	142.0	35.5	.	9.7	21.5	4.76	0.55	0.26	3.24	0.002	0.000	.
1002	7.950	3718.0	374.0	4.0	.	1.3	47.2	12.60	1.30	1.60	8.71	0.006	0.019	.
1003	6.800	23.0	.	.	.	.	.	.	.	.	.	.	.	.
1004	7.145	154.0	56.0	3.0	.	.	4.9	0.94	.	.	4.50	0.018	0.009	.
1005	7.700	459.0	63.1	173.5	.	14.8	9.3	2.02	0.55	0.18	3.07	0.085	0.015	.
1006	7.546	395.6	.	5.0	.	.	6.6	0.92	.	.	2.90	0.026	0.007	.
1007	7.730	1642.0	165.0	19.5	.	7.3	24.1	5.82	0.55	0.40	3.24	0.009	0.004	.
1008	7.730	964.0	93.6	7.0	.	3.8	13.9	2.64	.	0.66	0.81	0.003	0.007	.
1009	8.465	2372.2	258.0	34.3	.	.	34.2	7.50	.	.	8.80	.	.	.
1010	7.900	1668.0	122.0	.	.	.	.	.	.	.	.	.	.	.
1011	7.400	1336.0	125.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1012	LITTLE AGASSIZ LAKE	4936	8105	4ME14	AGASSIZ	32	.	.	80	8
1013	LITTLE BURWASH LAKE (NL)	4709	8107	2DA05		33	105.3	.	81	7
1014	LITTLE CAVE LAKE	4726	8221	2C	CAVELL	31	.	.	82	7
1015	LITTLE CHELSEA LAKE	4908	8451	4JC14	CHELSEA	34	65.5	.	84	2
1016	LITTLE FREY LAKE	4824	8154	4LC01	FREY	38	74.3	.	84	2
1017	LITTLE HART LAKE	4944	8418	4JC06	GILL	34	17.8	.	84	2
1018	LITTLE ISLAND LAKE	4758	8338	2BD09	BLISS	31	122.0	.	85	2
1019	LITTLE JAYDEE LAKE (NL)	4951	8332	4LK02	RITCHIE	34	19.0	.	84	2
1020	LITTLE KESAGAMI LAKE	4945	8016	4NC01	UNORGANIZED	32	513.3	.	80	8
1021	LITTLE PINE LAKE	4751	8347	2BD09	PETERS	31	21.3	.	85	2
1022	LITTLE RICE LAKE	4907	8310	4LL02	OPASATIKA	35	60.6	.	84	1
1023	LITTLE RIDOUT LAKE	4743	8245	4LC04	GREENLAW	31	85.6	.	84	2
1024	LITTLE WAWA LAKE	4751	8351	2BE09	PETERS	31	514.2	.	78	6
1025	LITTLE WAWA LAKE	4751	8350	2BE09	TRIQUET	31	514.2	.	85	2
1026	LITTLE WENEBEGON LAKE	4734	8303	2CB03	STROM	31	83.3	.	80	5
1027	LLOYD LAKE	4934	8442	4JC04	FROST	34	11.3	.	84	2
1028	LLOYD LAKE (NL)	4911	8016	4ND02	CLUTE	32	10.3	.	80	4
1029	LONDONDERRY LAKE	4734	8133	4LA06	LONDONDERRY	33	92.9	.	84	2
1030	LONE CABIN LAKE	4918	8459	4JC11	LESSARD	34	45.5	.	84	2
1031	LOONWING LAKE	4751	8117	4LA03	SOTHMAN	33	267.0	.	84	2
1032	LOST LAKE	4743	8147	4LA09	JACK	33	54.5	.	84	2
1033	LOST LAKE	4741	8040	2JD06	HAULTAIN	36	76.1	.	78	10
1034	LOUCKS LAKE (LOUCK'S)	4737	8152	4LA10	NEVILLE	33	14.3	.	84	2
1035	LOUISE LAKE	4916	8107	4MC01	LEITCH	32	87.2	.	80	4
1036	LOUISE LAKE	4949	8411	4JA01	STUDHOLME	34	34.4	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1012	23	7.570	504.0	63.0	.	.	.	.	.	.	.	.	.	.	.
1013	7	6.540	73.4	39.0	17.1	.	4.7	3.2	1.10	0.80	0.35	10.50	0.025	0.008	0.03
1014	26	7.530	1511.2	165.0	9.2	.	.	24.1	4.66	.	.	6.70	0.010	0.267	.
1015	17	7.890	2792.0	268.0	8.0	.	5.1	39.3	8.20	0.85	0.82	2.00	0.003	0.006	.
1016	4	.	19999.8	149.0	72.2	.	12.5	21.8	4.22	0.95	0.66	4.03	0.021	0.100	.
1017	14	8.530	2962.0	290.0	2.0	.	1.7	40.1	10.80	1.15	1.28	7.95	0.004	0.004	.
1018	15	7.165	686.0	83.0	.	44.0	7.4	12.5	2.40	0.96	0.54	4.37	0.016	0.014	.
1019	11	7.855	1205.6	120.7	8.9	.	5.4	16.3	3.96	0.45	0.64	1.34	0.006	0.014	.
1020	22	7.750	628.0	71.0	.	.	.	.	.	.	.	.	.	.	.
1021	15	7.128	850.4	103.0	.	40.0	6.1	15.8	2.70	1.26	0.78	4.99	0.036	0.015	.
1022	29	7.725	1165.8	125.4	104.5	.	18.0	18.3	4.42	0.60	0.54	2.25	0.024	0.020	.
1023	9	7.845	961.4	113.3	27.9	.	5.0	15.2	3.12	1.20	0.54	7.17	0.019	0.011	.
1024	.	7.800	667.0	.	.	.	.	.	.	.	.	.	.	.	.
1025	15	7.352	689.8	79.0	.	4.5	3.1	11.9	1.85	0.96	0.62	3.55	0.000	0.012	.
1026	13	7.450	502.0	67.0	.	.	.	.	.	.	.	.	.	.	.
1027	19	7.500	1304.0	127.8	4.5	.	3.5	18.2	4.18	0.40	0.44	1.62	0.014	0.000	.
1028	16	7.250	1150.0	118.0	.	.	.	.	.	.	.	.	.	.	.
1029	2	7.121	190.8	51.2	84.4	.	11.2	6.6	1.32	0.90	0.34	8.94	0.099	0.017	.
1030	17	7.640	1788.0	187.0	30.0	.	11.5	25.2	6.86	0.75	0.62	5.72	0.017	0.003	.
1031	6	8.053	1278.4	141.0	38.5	.	8.4	19.4	4.28	0.95	0.38	6.23	0.026	0.025	.
1032	6	6.953	104.8	36.9	24.3	.	5.6	3.4	1.06	0.80	0.30	8.05	.	.	.
1033	.	7.530	810.0	.	.	.	.	.	.	.	.	.	.	.	.
1034	7	6.945	169.2	66.7	123.0	.	16.6	6.0	1.46	4.30	0.22	4.75	0.120	0.026	.
1035	21	7.200	1724.0	147.0	.	.	.	.	.	.	.	.	.	.	.
1036	14	8.440	3224.0	304.0	10.0	.	4.5	42.9	11.70	1.45	0.68	2.84	0.000	0.008	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1037	LOWER AITKEN LAKE	4846	8155	4LC01	AITKEN	35	46.2	.	84	2
1038	LOWER CACHEGE LAKE	4748	8312	4LE04	MCNAUGHT	31	85.9	.	84	2
1039	LOWER CHESTERFIELD LAKE	4811	8128	4LA01	DOYLE & MCKEOWN	38	28.4	.	84	1
1040	LOWER MICHEGAMA LAKE	4805	8128	4LA03	HASSARD	38	246.2	.	84	1
1041	LOWER OPIKINIMIKA LAKE	4731	8120	4LA07	ASQUITH	33	390.8	.	78	10
1042	LOWER PRAIRIE BEE LAKE	4755	8351	2BD09	PETERS	31	558.5	.	85	2
1043	LOWER SERPENT LAKE	5001	8011	4NC03	UNORGANIZED	32	.	.	80	8
1044	LOWER STETHAM LAKE	4746	8134	4LA05	MATTAGAMI	33	68.8	.	84	2
1045	LUCIENNE LAKE	4732	8144	4LA08	BENNEWEIS	33	22.6	.	84	2
1046	LUKE LAKE	4809	8108	4LA03	MUTT	38	46.8	.	84	1
1047	LULU LAKE	4820	7953	4MB01	CLIFFORD	36	45.6	.	80	9
1048	LUQUER LAKE	4824	8146	4LB09	WHITESIDE	38	33.8	.	84	2
1049	MACFIE LAKE	4745	8124	4LA01	CABOT	33	70.1	.	84	2
1050	MAKAMI LAKE	4744	8150	4LA09	CARTER & JACK	33	169.6	.	84	2
1051	MAKWA LAKE	4732	8144	4LA08	BENNEWEIS	33	15.7	.	84	2
1052	MARCY LAKE	4835	8155	4LC01	FORTUNE	38	65.6	.	84	2
1053	MARJORIE LAKE	4852	8400	4LJ04	MARJORIE	34	97.5	.	84	2
1054	MARNE LAKE	4747	8119	4LA03	BURROWS	33	.	.	80	5
1055	MARQUETTE LAKE	4712	8144	2CF16	MARQUETTE	33	98.5	.	80	6
1056	MARTEN LAKE (ICE)	4914	8447	4JC13	WICKSTEED	34	24.3	.	84	2
1057	MARTIN LAKE	4935	8433	4JC08	MCEWING	34	27.9	.	84	2
1058	MASSEY LAKE	4831	8151	4LB09	MASSEY	38	69.2	.	84	2
1059	MATACHEWAN LAKE	4803	8043	2JD08	BADEN	36	140.6	.	80	9
1060	MATTAGAMI LAKE	4754	8135	4LA01	MATTAGAMI	33	4003.1	.	78	10
1061	MATTE LAKE (NL)	4943	8417	4JC06	STUDHOLME	34	9.7	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1037	4	7.781	743.2	85.7	101.2	.	14.9	13.7	2.30	0.60	0.28	3.23	0.057	0.004	.
1038	9	8.158	2090.0	209.0	6.8	.	3.4	32.7	4.22	1.00	1.30	5.00	0.000	0.005	.
1039	31	7.406	440.0	62.8	160.0	.	18.2	9.3	2.24	0.65	0.20	4.49	0.120	0.008	.
1040	31	7.289	335.2	53.2	65.9	.	10.2	7.1	1.72	0.65	0.38	5.55	.	0.004	.
1041	.	7.400	715.0	.	.	.	.	.	.	.	.	.	.	.	.
1042	15	7.034	435.2	62.0	.	29.5	5.0	8.5	1.65	1.06	0.50	4.70	0.015	0.008	.
1043	22	7.850	774.0	80.0	.	.	.	.	.	.	.	.	.	.	.
1044	2	7.415	323.4	94.7	35.5	.	6.3	7.7	2.02	6.10	0.30	7.03	0.024	0.005	.
1045	2	8.119	1534.4	168.0	10.4	.	2.2	24.2	4.08	1.05	0.62	7.38	0.009	0.005	.
1046	31	8.022	1315.6	142.0	57.4	.	9.2	20.5	4.78	1.00	0.32	5.11	0.008	0.100	.
1047	4	8.200	1054.0	.	.	.	.	.	.	.	.	.	.	.	.
1048	4	7.888	966.0	110.7	30.0	.	8.1	16.3	2.78	0.65	0.26	3.70	0.011	0.020	.
1049	7	8.112	1750.6	184.0	6.1	.	2.8	29.1	3.44	0.65	0.54	4.36	0.007	0.002	.
1050	6	7.422	340.6	57.7	53.4	.	7.6	7.2	1.58	0.85	0.32	6.48	0.042	0.004	.
1051	2	8.088	1515.8	165.0	9.2	.	2.3	23.9	3.96	1.05	0.60	7.37	0.008	0.004	.
1052	4	8.094	1499.4	159.0	74.9	.	11.2	23.2	4.22	1.10	0.60	4.98	0.025	0.025	.
1053	16	7.460	2248.0	221.0	18.5	.	9.1	31.0	8.00	0.65	0.76	3.40	0.008	0.070	.
1054	29	7.600	1014.0	128.0	.	.	.	.	.	.	.	.	.	.	.
1055	2	6.100	70.0	44.0	.	.	.	.	.	.	.	.	.	.	.
1056	16	7.770	2472.0	247.0	50.5	.	10.4	37.0	8.10	0.80	0.96	4.90	0.009	0.008	.
1057	15	8.190	1954.0	190.0	1.5	.	2.5	28.4	5.64	0.40	0.36	2.85	0.005	0.000	.
1058	4	7.548	421.4	55.3	93.7	.	14.1	7.8	1.66	0.60	0.32	2.62	0.039	0.015	.
1059	26	7.700	1294.0	139.0	.	.	.	.	.	.	.	.	.	.	.
1060	.	7.400	535.0	.	.	.	.	.	.	.	.	.	.	.	.
1061	14	8.480	2634.0	253.0	2.5	.	2.3	39.4	7.20	0.40	0.38	3.73	0.011	0.000	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1062	MATTI LAKE (NL)	4748	8309	4LE04	MCNAUGHT	31	3.9	.	84	2
1063	MAVIS LAKE	4754	8101	4LA03	MIDLOTHIAN	36	16.2	.	84	2
1064	MAXWELL LAKE	4933	8211	4LF02	GURNEY	35	96.4	.	84	1
1065	MCARTHUR LAKE	4813	8113	4LA02	MCARTHUR	38	262.1	.	84	1
1066	MCCOWAN LAKE	4937	8300	4LL01	MCCOWAN	35	32.4	.	80	6
1067	MCCRAE LAKE	4837	8154	4LC01	FORTUNE	38	40.2	.	84	2
1068	MCEWING LAKE	4932	8435	4JC12	MCEWING	34	150.9	.	84	2
1069	MCINNIS LAKE (NL)	4835	8053	4M	GERMAN	38	.	.	82	6
1070	MCINTOSH LAKE	4838	8052	4MB02	DUNDONALD	32	149.2	.	78	10
1071	MCLENNAN LAKE	4744	8324	4LE02	CHAPPISE	31	72.8	.	80	7
1072	MCNAUGHT LAKE	4748	8313	4LE04	MCNAUGHT	31	13.7	.	84	2
1073	MEADOW LAKE	4824	8120	4LA02	DELORO	38	13.6	.	84	1
1074	MEMOIR LAKE	4730	8259	2CB03		31	131.7	.	81	7
1075	MERGANSER LAKE	4953	8410	4JC06	ROGERS	34	1.6	.	84	2
1076	MESOMIKENDA LAKE	4740	8153	4LA10	SOMME	33	1707.5	.	80	6
1077	METIKEMEDO LAKE	4741	8057	2JD08	KNIGHT	36	123.8	.	80	6
1078	MICHIWAKENDA LAKE	4738	8113	2JD08	CHURCHILL	33	302.2	.	78	10
1079	MIDDLE STETHAM LAKE	4748	8135	4LA05	MATTAGAMI	33	100.4	.	84	2
1080	MIDDLETON LAKE	4759	8030	2JC05	FLAVELLE	36	55.9	.	81	8
1081	MIDDLETON LAKE (NL)	4730	8030	2J	FLAVEL	36	.	.	82	7
1082	MIDLOTHIAN LAKE	4755	8100	4LA03		36	359.4	.	81	6
1083	MIDWAY LAKE	4810	8229	4LC06	IVANHOE	31	23.4	.	84	2
1084	MIKE LAKE (NL)	4735	8308	4LC06	NIMITZ	31	5.3	.	84	2
1085	MIKE LAKE (NL)	4750	8135	4L	NOBLE	33	.	.	82	7
1086	MILLS LAKE	4800	8230	4LC06	WHIGHAM	31	29.0	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1062	9	8.188	2016.0	207.0	7.3	.	2.6	31.7	4.16	0.90	1.02	7.53	0.000	0.000	.
1063	1	8.045	742.0	100.3	6.4	.	5.7	15.9	1.12	0.75	0.26	9.65	0.015	0.048	.
1064	26	8.187	2334.0	239.0	40.6	.	11.2	33.9	8.00	2.70	0.76	6.12	0.090	0.030	.
1065	31	7.645	569.4	73.6	32.6	.	7.1	9.2	2.90	0.65	0.38	5.55	0.010	0.006	.
1066	28	6.300	120.0	25.0	.	.	.	.	.	.	.	.	.	.	.
1067	4	8.310	2408.0	236.0	3.0	.	1.2	34.5	6.24	1.05	1.08	5.62	0.002	0.007	.
1068	18	7.480	2670.0	257.0	16.0	.	6.0	37.0	7.56	1.15	0.76	1.51	0.002	0.055	.
1069	3	6.437	23.4	14.6	5.9	.	.	1.1	0.26	.	.	3.00	.	.	.
1070	.	8.100	2460.0	.	.	.	.	.	.	.	.	.	.	.	.
1071	10	7.850	576.0	74.0	.	.	.	.	.	.	.	.	.	.	.
1072	9	8.115	1950.2	195.0	9.5	.	3.8	31.1	4.08	0.95	1.16	4.62	0.000	0.002	.
1073	31	7.988	1214.4	129.4	69.7	.	11.2	19.5	4.18	1.00	0.44	3.56	0.020	0.160	.
1074	22	8.110	831.2	92.0	8.5	.	2.1	12.4	2.80	0.80	0.70	4.50	0.034	0.006	0.05
1075	14	7.860	1096.0	107.5	13.5	.	7.4	14.1	3.54	0.30	0.68	0.98	0.110	0.100	.
1076	4	6.650	304.0	61.0	.	.	.	.	.	.	.	.	.	.	.
1077	14	7.000	484.0	81.0	.	.	.	.	.	.	.	.	.	.	.
1078	.	7.460	455.0	.	.	.	.	.	.	.	.	.	.	.	.
1079	2	7.584	428.6	124.3	23.7	.	5.9	9.5	2.60	8.95	0.40	7.92	0.010	0.002	.
1080	18	7.200	192.0	105.0	.	.	.	.	.	.	.	.	.	.	.
1081	13	7.058	211.2	.	26.0	.	.	5.8	1.44	.	.	7.50	0.043	0.037	.
1082	17	7.430	325.6	60.0	11.7	.	6.0	6.8	1.70	0.70	0.35	9.00	0.011	0.008	0.02
1083	9	8.178	1961.0	189.0	-0.1	.	3.3	24.6	7.40	0.65	0.54	2.10	0.002	0.003	.
1084	9	7.301	222.4	37.9	1.5	.	3.8	4.9	0.70	0.45	0.34	5.13	0.013	0.003	.
1085	14	7.031	333.6	.	96.5	.	.	7.7	1.92	.	.	4.10	0.077	0.024	.
1086	9	7.666	598.8	72.1	5.8	.	5.2	10.2	1.62	0.55	0.26	3.92	0.003	0.000	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1087	MINISINAKWA LAKE	4739	8144	4LA05	ST LOUIS	33	1912.6	26145.6	80	6
1088	MINK LAKE	4935	8435	4JC08	MCEWING	34	19.2	.	84	2
1089	MISEMA LAKE	4813	7945	2JC07	ARNOLD	36	347.9	.	82	7
1090	MISTANGO LAKE	4907	8027	4MC08	FREELE	32	232.1	.	80	4
1091	MOLLIE LAKE	4730	8145	4LA08	BENNEWEIS& VROO	33	131.3	.	84	2
1092	MOND LAKE	4749	8110	4LA03	MOND	33	92.1	.	84	2
1093	MONTGOMERYS LAKE	4918	8118	4ME12	COLQUHOUN	32	9.7	.	80	4
1094	MONTROSE LAKE	4759	8104	4LA03	MONTROSE	36	249.9	.	84	2
1095	MOONLIGHT LAKE	4912	8445	4JC13	WICKSTEED	34	91.1	.	84	2
1096	MOORE LAKE	4734	8200	4LA08	YEO	33	94.3	.	84	2
1097	MORRISON LAKE	4758	8033	2JD01	CAIRO	36	.	.	81	8
1098	MOUNTAIN LAKE	4911	8426	4JC06	LASCELLES	34	201.5	.	84	2
1099	MOUNTAIN LAKE	4739	8014	2JD01	BARBER	36	416.3	.	81	6
1100	MOWBRAY LAKE	4955	8212	4LL03	MOWBRAY	35	38.9	.	84	1
1101	MULVEY LAKE	4955	8318	4LK07	MULVEY	34	77.1	.	84	2
1102	MUNRO LAKE	4835	8009	4MB05	MUNRO	36	123.9	.	80	6
1103	MURPHY LAKE	4938	8437	4JC04	ARNOTT	34	13.0	.	84	2
1104	MURR LAKE	4809	8148	4LA04	PHARAND	38	81.6	.	84	2
1105	MUSKASENDA LAKE	4805	8118	4LA02	ENGLISH	38	632.4	.	80	7
1106	MUSKRAT LAKE (NL)	4923	8206	4LD01	FAUQUIER	35	51.8	.	84	1
1107	MYRTLE LAKE	4938	8435	4JC04	ARNOTT	34	32.4	.	84	2
1108	NABAKWASI LAKE	4733	8127	4LA06	MIRAMICHI	33	884.0	.	80	5
1109	NAGAGAMI LAKE	4925	8501	4JC11	NAGAGAMI	34	5366.7	.	80	7
1110	NAGAGAMISIS LAKE	4928	8440	4JC12	FROST	34	2332.8	.	82	5
1111	NANSEN LAKE	4915	8214	4LD01	NANSEN	35	12.2	.	84	1

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1087	4	6.600	318.0	67.0	.	.	.	.	.	.	.	.	.	.	.
1088	15	8.430	4460.0	428.0	4.5	.	0.9	60.4	15.50	1.45	1.80	8.48	0.003	0.034	.
1089	13	7.288	381.4	.	54.2	.	.	7.8	1.68	.	.	7.60	0.091	0.034	.
1090	25	7.400	1420.0	116.0	.	.	.	.	.	.	.	.	.	.	.
1091	2	7.659	543.4	81.1	79.6	.	10.0	11.4	1.96	1.30	0.42	6.32	0.076	0.008	.
1092	6	7.964	1143.8	131.0	44.0	.	7.3	17.8	4.08	1.15	0.30	7.54	0.027	0.068	.
1093	16	7.600	19999.8	151.0	.	.	.	.	.	.	.	.	.	.	.
1094	1	7.595	640.4	83.9	62.5	.	10.6	11.9	2.56	0.85	0.32	6.44	0.018	0.007	.
1095	17	7.690	2902.0	285.0	20.0	.	8.4	41.6	8.40	1.05	1.10	3.26	0.003	0.050	.
1096	2	7.436	251.2	48.4	24.6	.	7.5	6.4	1.22	0.60	0.16	6.94	0.027	0.006	.
1097	18	6.850	242.0	91.0	.	.	.	.	.	.	.	.	.	.	.
1098	17	7.170	1138.0	118.9	71.0	.	14.1	18.4	4.04	0.65	0.20	3.97	0.015	0.006	.
1099	13	7.100	364.0	55.0	.	.	.	.	.	.	.	.	.	.	.
1100	26	7.445	355.2	50.8	138.2	.	24.0	8.2	1.74	0.70	0.10	2.22	0.054	0.014	.
1101	11	7.768	1225.2	128.1	49.4	.	11.0	17.8	4.28	0.95	0.48	1.91	0.009	0.045	.
1102	16	6.700	522.0	87.0	.	.	.	.	.	.	.	.	.	.	.
1103	15	7.850	1060.0	103.8	6.5	.	3.2	15.5	3.00	.	0.50	1.03	0.005	0.006	.
1104	1	8.012	831.6	98.4	129.6	.	13.1	15.3	2.62	0.60	0.38	3.61	0.041	0.031	.
1105	19	7.450	882.0	119.0	.	.	.	.	.	.	.	.	.	.	.
1106	28	8.135	1563.4	185.0	82.6	.	14.3	23.2	5.50	5.45	0.64	3.56	0.032	0.013	.
1107	15	8.390	3066.0	289.0	2.5	.	1.5	39.3	12.10	1.15	1.60	4.01	0.004	0.002	.
1108	27	7.650	1314.0	106.0	.	.	.	.	.	.	.	.	.	.	.
1109	11	7.800	1260.0	122.0	.	.	.	.	.	.	.	.	.	.	.
1110	27	8.445	2307.8	218.0	18.5	.	.	32.4	7.24	.	.	3.70	.	.	.
1111	27	8.356	2120.0	209.0	18.1	.	7.8	30.9	5.52	1.00	0.70	3.64	0.008	0.009	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1112	NEMEGOSENDA LAKE	4800	8307	4LE07	CHEWETT	31	1803.2	.	80	8
1113	NETTIE LAKE (NL)	4813	7959	2J	MORISETTE	36	.	.	82	5
1114	NEVILLE LAKE	4740	8155	4LA10	NEVILLE & SOMME	33	119.0	.	84	2
1115	NL	4711	8221	2C	CORTEZ	31	.	.	82	7
1116	NORMAN LAKE	4903	8101	4MD01	LAMARCHE	32	3.0	.	80	4
1117	NORTH TOWER LAKE	4922	8210	4LF02	FAUQUIER	35	14.6	.	84	1
1118	NUGENT LAKE (CROFT)	4752	8114	4LA03	SOTHMAN	33	110.6	.	84	2
1119	NUMBER NINE LAKE	4751	8148	4LA09	MIDDLEBORO	33	4.7	.	84	2
1120	O'BRIEN LAKE (PROULX)	4924	8222	4LF01	O'BRIEN	35	30.0	.	84	1
1121	OBUSHKONG LAKE	4742	8048	2JD07	VAN HISE	36	437.4	.	81	8
1122	OLD SQUAW LAKE (NL)	5001	8410	4JB03	238	34	4.5	.	84	2
1123	OSCAR LAKE	4757	8300	4LC08	CHEWETT	31	49.9	.	84	2
1124	OSPREY LAKE	4958	8409	4JB03	ROGERS	34	0.9	.	84	2
1125	OUELLET LAKE	4919	8147	4LB04	HAGGART	32	30.3	.	84	1
1126	OVERHILL LAKE (NL)	4955	8200	4LG01	HOWELLS	35	6.0	.	84	1
1127	PALANGIO LAKE	4903	8112	4MD01	FOURNIER	32	25.7	.	80	4
1128	PALLET LAKE	4816	8039	4MB04	NORDICA	36	11.9	99.4	80	6
1129	PAPAKOMEKA LAKE	4816	8118	4LA02	MCARTHUR	38	202.4	.	80	7
1130	PARK LAKE	4927	8441	4JC03	FROST	34	71.3	.	84	2
1131	PARTING LAKE	4757	8117	4LA03	SEMPLE	38	96.4	.	84	2
1132	PEARL LAKE (PEARL'S)	4752	8153	4LA10	WIGLE	33	5.4	.	84	2
1133	PELICAN LAKE	4955	8408	4JB03	ROGERS	34	5.8	.	84	2
1134	PENASSI LAKE	4745	8054	2JD08	RANKIN	36	232.5	.	81	7
1135	PENHALL LAKE	4945	8357	4LK06	STODDART	34	49.2	.	84	2
1136	PERON LAKE	4912	8148	4LB04	HAGGART	32	14.3	.	84	1

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1112	14	7.600	1120.0	128.0	.	.	.	.	.	.	.	.	.	.	.
1113	28	6.886	56.8	27.3	6.8	.	.	2.5	0.65	.	.	6.70	.	.	.
1114	7	7.273	277.4	51.6	36.9	.	10.7	6.0	1.62	0.90	0.28	6.40	0.068	0.006	.
1115	27	6.251	127.8	43.0	94.0	.	.	4.3	1.26	.	.	7.10	0.140	0.085	.
1116	21	7.000	1358.0	222.0	.	.	.	.	.	.	.	.	.	.	.
1117	27	8.487	3625.4	357.0	25.5	.	6.5	47.6	11.80	5.10	1.20	5.55	0.007	0.008	.
1118	6	8.253	1845.0	203.0	20.6	.	5.0	30.1	5.60	1.00	0.48	5.53	0.006	0.040	.
1119	6	5.070	19999.8	16.2	4.9	.	1.9	1.0	0.28	0.20	0.22	4.65	0.019	0.028	.
1120	26	8.178	2265.4	263.0	52.2	.	11.2	35.9	7.00	5.85	1.18	7.67	0.009	0.019	.
1121	6	7.150	208.0	47.0	.	.	.	.	.	.	.	.	.	.	.
1122	12	8.330	2642.0	258.0	16.0	.	6.3	34.4	9.36	0.95	0.80	3.63	0.012	0.012	.
1123	9	7.678	839.0	108.2	30.9	.	13.4	15.2	2.80	2.10	0.46	3.60	0.021	0.013	.
1124	14	7.740	840.0	81.9	26.0	.	8.6	10.6	2.88	0.30	1.06	0.67	0.021	0.110	.
1125	28	8.051	1412.6	149.0	233.0	.	26.5	22.7	5.38	1.70	0.60	3.34	0.250	0.030	.
1126	26	6.514	49.2	20.1	89.1	.	10.5	2.4	0.52	0.25	0.26	2.84	0.140	0.008	.
1127	16	7.450	1808.0	179.0	.	.	.	.	.	.	.	.	.	.	.
1128	17	6.350	162.0	36.0	.	.	.	.	.	.	.	.	.	.	.
1129	19	7.200	942.0	116.0	.	.	.	.	.	.	.	.	.	.	.
1130	18	7.960	3606.0	350.0	13.5	.	3.1	51.4	9.26	1.65	0.62	3.42	0.005	0.042	.
1131	6	8.335	2430.0	236.0	6.9	.	2.9	35.8	6.12	1.05	0.50	4.46	0.003	0.005	.
1132	6	6.596	47.4	25.1	27.7	.	6.2	2.0	0.50	0.70	0.26	5.96	0.086	0.019	.
1133	14	7.740	710.0	71.6	16.0	.	6.4	8.9	2.64	0.25	0.62	1.13	0.005	0.004	.
1134	25	7.350	568.0	80.0	.	.	.	.	.	.	.	.	.	.	.
1135	11	8.183	2194.8	214.0	40.7	.	10.9	31.3	7.00	1.25	0.68	2.34	0.007	0.020	.
1136	29	7.735	1259.2	137.0	118.8	.	18.3	20.9	4.62	0.90	0.42	3.37	0.028	0.021	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH	DAY
1137	PERRIN LAKE	4931	8443	4JC04	FROST	34	15.4	.	84	2	19
1138	PERRY LAKE	4832	8006	4MB05	MICHAUD	36	108.0	.	80	9	10
1139	PETROSKY LAKE	4728	8343	2BE09	KOSNY	31	.	.	80	8	12
1140	PHARAND LAKE	4807	8148	4LA04	PHARAND	38	392.9	.	80	7	17
1141	PHEASANT LAKE	4956	8409	4JB03	ROGERS	34	11.7	.	84	2	14
1142	PHIPPS LAKE	4707	8219	2C	IVY	31	.	.	82	7	27
1143	PIERRE LAKE	4930	8045	4ME16	SWARTMAN	32	2354.0	.	80	4	29
1144	PIKE LAKE	4947	8408	4JA01	STUDHOLME	34	48.9	.	84	2	14
1145	PINTAIL LAKE (NL)	5000	8410	4JB03	238	34	5.6	.	84	2	12
1146	PIRSSON LAKE	4824	8144	4LB09	WHITESIDE	38	10.2	.	84	2	4
1147	PIVABISKA LAKE	4949	8343	4LK06	HANLAN	34	799.5	58252.3	82	5	28
1148	POINT LAKE	4834	8051	4MD01	GERMAN	38	8.7	.	79	8	.
1149	POINTING LAKE	4931	8442	4JC04	FROST	34	11.1	.	84	2	19
1150	POISON LAKE (NL)	4827	8256	4LE01	KAPUSKASING, SH	31	19.1	.	84	2	8
1151	POTVIN LAKE (NL)	4823	8127	4LA01	OGDEN	38	2.8	.	84	2	5
1152	POWELL LAKE	4902	8259	4LF01	OSCAR	35	49.7	.	84	1	29
1153	POWELL LAKE	4801	8050	2JD08	BANNOCKBURN	36	26.7	.	81	8	18
1154	PRAIRIE BEE LAKE	4755	8351	2BD09	COSENS	31	1150.8	.	80	5	22
1155	PRATT LAKE	4857	8230	4LD01	SEATON	35	93.2	.	84	1	30
1156	PTARMIGAN LAKE	4956	8408	4JC06	ROGERS	34	2.1	.	84	2	14
1157	PUSWAWA LAKE	4731	8343	2BE11	GENIER	31	233.7	.	80	8	12
1158	PUZZLE LAKE	4927	8435	4JC12	MCEWING	34	36.6	.	84	2	18
1159	QUARTZ LAKE	4815	8125	4LA02	FRIPP	38	59.5	.	84	2	5
1160	RABBITT LAKE	4944	8418	4JC06	GILL	34	21.1	.	84	2	14
1161	RACINE LAKE	4802	8320	4LE06	RACINE	31	1268.0	.	80	5	19

OBS	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1137	7.840	1962.0	191.0	1.0	.	2.9	31.2	3.94	0.40	0.34	1.54	0.003	0.000	.
1138	8.090	1282.0	140.0	.	.	.	.	.	.	.	.	.	.	.
1139	6.800	600.0	91.0	.	.	.	.	.	.	.	.	.	.	.
1140	6.900	558.0	81.0	.	.	.	.	.	.	.	.	.	.	.
1141	8.450	3300.0	319.0	23.5	.	8.8	45.1	10.90	1.35	0.76	5.11	0.009	0.018	.
1142	7.107	140.2	42.0	15.2	.	.	4.1	1.10	.	.	7.60	0.039	0.030	.
1143	7.200	812.0	90.0	.	.	.	.	.	.	.	.	.	.	.
1144	8.290	2006.0	213.0	50.0	.	12.7	28.3	7.60	2.85	1.24	2.25	0.015	0.057	.
1145	7.444	322.6	36.2	7.1	.	5.0	4.3	1.06	0.00	0.64	0.51	0.000	0.000	.
1146	8.030	1136.4	122.4	32.1	.	8.2	17.5	3.32	0.75	0.38	3.96	0.015	0.074	.
1147	.	19999.8	114.8	12.4	.	.	16.3	3.95	.	.	2.60	.	.	.
1148	7.400	370.0	48.0	.	.	.	.	.	.	.	.	.	.	.
1149	7.710	2046.0	200.0	4.5	.	3.5	28.3	6.46	0.60	1.12	2.27	0.002	0.002	.
1150	7.589	481.2	61.5	51.9	.	9.6	7.8	1.96	0.40	0.96	3.07	0.023	0.000	.
1151	6.978	101.2	19.7	42.2	.	7.2	1.6	0.56	.	0.70	1.65	0.057	0.052	.
1152	7.740	953.6	107.6	112.8	.	17.4	16.3	3.66	0.75	0.42	3.54	0.024	0.002	.
1153	7.650	714.0	93.0	.	.	.	.	.	.	.	.	.	.	.
1154	6.800	292.0	54.0	.	.	.	.	.	.	.	.	.	.	.
1155	8.231	1972.8	195.0	51.1	.	12.0	29.4	6.16	1.05	0.88	3.10	0.014	0.032	.
1156	8.180	1442.0	139.0	23.0	.	8.5	19.7	4.58	0.50	0.50	1.37	0.062	0.023	.
1157	7.050	534.0	87.0	.	.	.	.	.	.	.	.	.	.	.
1158	7.160	1204.0	123.5	56.5	.	12.0	19.4	3.32	0.40	0.26	2.35	0.018	0.085	.
1159	7.896	897.8	107.0	32.2	.	6.2	14.3	3.30	0.70	0.24	6.18	0.013	0.003	.
1160	8.540	3300.0	322.0	2.0	.	1.9	39.7	14.80	1.30	1.74	10.02	0.000	0.002	.
1161	7.400	498.0	81.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1162	RADISSON LAKE	4857	8311	4LL02	RADISSON	35	75.1	.	84	1
1163	RADISSON LAKE	4813	8045	4MD06	ROBERTSON	36	543.9	.	82	7
1164	RAFT LAKE	4940	8258	4LL01	MCCOWAN	35	151.5	.	80	6
1165	RAFT LAKE (NL)	4929	8433	4JC12	MCEWING	34	56.5	.	84	2
1166	RAIL LAKE (NL)	5005	8411	4JC06	238	34	5.8	.	84	2
1167	RAIN LAKE (NL)	4953	8147	4LG01	HOWELLS	35	4.5	.	84	1
1168	RAY LAKE (NL)	4729	8152	4LA08	INVERGARRY	33	4.1	.	84	2
1169	READING LAKE	4754	8118	4LA03	SOTHMAN	33	113.3	.	84	2
1170	REAUME LAKE	4854	8108	4MD03	REAUME	32	27.1	.	80	7
1171	RED BARK LAKE	4734	8314	2BE10	REANEY	31	16.3	.	79	8
1172	RED PINE LAKE	4938	8432	4JC08	ARNOTT	34	80.2	.	80	7
1173	REDHEAD LAKE (NL)	5002	8410	4JB03	238	34	5.8	.	84	2
1174	REDPINE LAKE	4855	8108	4MD03	REAUME	32	7.7	.	80	7
1175	REDWING LAKE	4800	8106	4LA03	HUTT	38	56.4	.	84	2
1176	RELIC LAKE	4752	8109	4LA03	HALLIDAY	33	157.2	.	84	2
1177	REMI LAKE	4926	8210	4LF02	FAUQUIER	35	2512.6	.	78	10
1178	RENEE LAKE	4807	8251	4LC08	WARREN	31	.	.	80	8
1179	RHYOLITE LAKE	4753	8103	4LA03	MIDLOTHIAN	36	171.8	.	84	2
1180	RIED LAKE	4824	8120	4LA02	DELORO	38	19.4	.	84	1
1181	RITCHIE LAKE	4953	8331	4LK08	RITCHIE	34	96.9	.	84	2
1182	ROBBIE LAKE	4745	8124	4LA01	CABOT	33	19.0	.	84	2
1183	ROBILLARD LAKE	4749	8008	2J	TRUAX	36	.	.	82	5
1184	ROBIN LAKE (NL)	5003	8409	4JB03	238	34	2.6	.	84	2
1185	ROBINSON LAKE	4759	8317	4LE01	D'ARCY	31	75.5	.	84	2
1186	ROGER LAKE (NL)	4935	8432	4JC08	ARNOTT	34	6.5	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1162	29	7.796	1244.0	130.0	123.7	.	18.1	19.5	4.74	0.70	0.56	1.86	0.025	0.008	.
1163	13	7.606	494.6	.	18.5	.	.	8.7	1.80	.	.	7.40	0.021	0.004	.
1164	28	7.100	704.0	106.0	.	.	.	.	.	.	.	.	.	.	.
1165	18	7.850	2000.0	197.0	16.5	.	6.5	30.9	5.16	0.55	0.22	1.99	0.004	0.004	.
1166	12	8.159	2954.2	283.0	61.3	.	13.9	37.9	9.60	2.65	0.74	4.35	0.021	0.038	.
1167	26	.	19999.8	82.3	127.3	.	17.7	13.1	2.68	0.50	0.12	2.42	0.076	0.010	.
1168	2	5.865	3.4	11.7	4.4	.	1.4	0.7	.	.	0.38	2.68	0.013	0.028	.
1169	6	8.317	2156.0	214.0	3.0	.	3.0	32.2	5.78	0.95	0.48	5.74	0.005	0.007	.
1170	24	7.800	3096.0	312.0	.	.	.	.	.	.	.	.	.	.	.
1171	.	5.960	14.0	16.0	.	.	.	.	.	.	.	.	.	.	.
1172	9	8.050	2452.0	213.0	.	.	.	.	.	.	.	.	.	.	.
1173	12	8.190	1788.0	175.0	15.1	.	6.6	25.2	5.38	0.55	0.78	1.42	0.003	0.007	.
1174	13	7.800	616.0	66.0	.	.	.	.	.	.	.	.	.	.	.
1175	1	7.838	906.4	100.8	51.8	.	8.3	13.6	3.72	0.80	0.42	3.93	0.012	0.098	.
1176	5	8.069	1184.0	128.7	31.5	.	8.6	17.0	4.74	0.80	0.42	5.09	0.005	0.004	.
1177	.	7.800	1040.0	.	.	.	.	.	.	.	.	.	.	.	.
1178	14	7.200	634.0	92.0	.	.	.	.	.	.	.	.	.	.	.
1179	5	7.722	556.8	86.5	11.0	.	5.9	8.1	4.20	1.00	0.34	9.51	0.051	0.004	.
1180	31	7.652	828.6	95.0	70.2	.	12.0	14.2	2.94	0.85	0.30	3.29	0.017	0.069	.
1181	11	7.788	906.2	96.2	99.8	.	15.1	13.8	3.38	0.75	0.26	1.26	0.037	0.011	.
1182	7	8.207	2144.0	214.0	58.3	.	1.8	32.8	4.56	0.90	0.70	3.16	0.004	0.000	.
1183	27	7.976	885.2	105.5	92.2	.	.	14.4	3.57	.	.	6.50	.	.	.
1184	12	8.380	2382.0	230.0	9.5	.	6.4	35.1	4.82	1.50	1.54	0.00	0.000	0.005	.
1185	8	7.674	832.8	107.4	49.6	.	8.0	14.0	2.80	1.65	0.84	5.66	0.030	0.027	.
1186	15	6.214	42.0	11.2	8.5	.	3.4	0.7	0.24	0.00	0.44	1.24	0.009	0.010	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1187	ROGERS LAKE	4955	8411	4JC06	ROGERS	34	34.0	.	84	2
1188	ROLAND LAKE	4848	8239	4LF01	BUCHAN	35	74.5	.	84	1
1189	ROUND LAKE	4801	8002	2JC01	OTTO	36	1212.1	.	82	5
1190	ROZON LAKE	4816	7953	2JC07	ARNOLD	36	3.8	.	80	6
1191	RUFUS LAKE	4909	8305	4LL02	OPAZATIKA	35	528.8	.	80	7
1192	RUTH LAKE	4743	8324	4LE02	CHAPPISE	31	15.6	.	79	8
1193	SAMPLE LAKE	4736	8332	2BE11	CULL	31	.	.	80	8
1194	SAMUEL LAKE	4945	8412	4JA01	STUDHOLME	34	49.7	.	84	2
1195	SAND LAKE (#54) (NL)	4905	8454	4JC14	CHELSEA	34	79.2	.	84	2
1196	SAND LAKE (EAST SAND)	4716	8145	2CE10	PAUDASH	33	50.2	.	80	6
1197	SASHISHAW LAKE	4802	8152	4LB10	REGAN & CROTHER	33	154.8	.	84	2
1198	SAW LAKE	4809	8230	4LC06	IVANHOE	31	40.4	.	82	6
1199	SAW LAKE	4932	8442	4JC04	FROST	34	5.6	.	84	2
1200	SCAUP LAKE (NL)	5002	8409	4JB03	238	34	3.6	.	84	2
1201	SCHOU LAKE	4736	8159	4LA10	POTIER	33	215.7	.	84	2
1202	SCOTER LAKE (NL)	5001	8408	4JB01	238	34	27.6	.	84	2
1203	SCOTT LAKE	4808	8115	4LA02	BARTLETT	38	62.9	.	84	1
1204	SCUCKASU LAKE	4937	8456	4JC09	MERCER	34	131.2	.	84	2
1205	SENSENBRENNER LAKE (NL)	4944	8220	4LF01	GUILFOYLE	35	19.6	.	84	1
1206	SEPTEMBER LAKE	4744	8229	4LC04	GARNET	31	28.1	.	84	2
1207	SESEKINIKA LAKE	4811	8014	2JC01	MAISONVILLE	36	589.7	.	78	10
1208	SEVEN MILE LAKE	4743	8323	4LE02	CHAPPISE	31	10.5	.	80	5
1209	SEVENINCH LAKE	4757	8101	4LA03	MONTROSE	36	106.5	.	84	2
1210	SEWELL LAKE	4813	8159	4LC01	SEWELL	38	82.2	.	84	2
1211	SHACKLETON LAKE	4918	8156	4LB04	SHACKLETON	35	82.6	.	84	1

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN
1187	14	8.410	3166.0	302.0	35.5	.	10.5	44.7	10.20	1.90	0.74	3.88	0.005	0.012
1188	30	7.270	592.0	74.9	251.6	.	32.5	12.3	2.14	0.55	0.26	1.86	0.079	.
1189	27	7.950	755.0	128.7	45.6	.	.	15.3	3.26	.	.	11.30	.	.
1190	12	8.350	1300.0	111.0	.	.	.	.	.	.	.	.	.	.
1191	2	7.300	1318.0	125.0	.	.	.	.	.	.	.	.	.	.
1192	.	6.860	112.0	22.0	.	.	.	.	.	.	.	.	.	.
1193	12	6.900	678.0	95.0	.	.	.	.	.	.	.	.	.	.
1194	14	8.410	2264.0	230.0	50.0	.	11.8	31.6	8.10	2.25	0.28	2.45	0.010	0.110
1195	17	7.580	2434.0	242.0	35.0	.	9.6	35.3	7.86	0.80	0.72	3.53	0.009	0.013
1196	4	6.300	166.0	62.0	.	.	.	.	.	.	.	.	.	.
1197	1	8.006	858.6	97.6	35.4	.	7.4	14.5	2.54	0.75	0.36	4.60	0.010	0.003
1198	30	8.001	2332.8	235.0	5.8	.	.	33.9	7.10	.	.	8.60	0.047	0.025
1199	19	6.916	440.0	49.9	5.0	.	2.9	6.5	1.36	.	0.40	1.67	0.010	0.006
1200	12	7.990	1200.0	117.0	25.2	.	7.2	15.7	3.30	0.60	0.88	0.70	0.008	0.014
1201	7	7.195	189.6	42.6	49.4	.	9.4	5.0	1.16	0.75	0.28	5.95	0.040	0.011
1202	12	7.543	519.0	63.3	143.9	.	17.8	8.9	2.46	0.50	0.72	1.66	0.057	0.003
1203	31	8.431	2452.0	244.0	14.8	.	2.7	35.0	7.96	1.20	0.58	7.85	0.007	0.004
1204	19	7.380	1272.0	133.0	43.5	.	13.6	20.6	3.58	0.45	0.38	3.22	0.013	0.030
1205	27	7.823	601.2	70.3	3.7	.	3.8	9.1	1.92	0.30	0.34	2.52	0.002	0.002
1206	9	7.767	1011.0	111.2	34.8	.	7.4	16.6	2.62	0.80	0.32	4.15	0.000	0.008
1207	.	7.330	429.0	.	.	.	.	.	.	.	.	.	.	.
1208	13	5.350	-8.0	12.0	.	.	.	.	.	.	.	.	.	.
1209	1	7.575	514.2	76.8	36.3	.	7.6	9.9	2.16	0.90	0.46	8.46	0.042	0.021
1210	4	7.802	738.0	89.5	49.6	.	10.4	12.8	2.40	0.65	0.28	4.59	0.011	0.004
1211	28	8.144	1725.2	203.0	75.4	.	14.6	25.6	5.70	5.80	0.46	3.14	0.034	0.007

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1212	SHANNON LAKE	4948	8324	4LK08	SHANNON	34	1141.3	.	80	7
1213	SHAPELESS LAKE	4932	8442	4JC04	FROST	34	41.3	.	84	2
1214	SHARON LAKE (NL)	4740	8038	2JD06	LAWSON	36	.	.	81	8
1215	SHEKAK LAKE	4905	8505	4JC14	CHOLETTE	34	769.9	.	80	7
1216	SHENANGO LAKE	4823	8243	4LC08	SHENANGO	31	.	.	80	8
1217	SHILLINGTON LAKE	4746	8039	2JD06	SHILLINGTON	36	127.6	.	80	10
1218	SHIRLEY LAKE (NL)	4938	8415	4JC01	NASSAU	34	9.7	.	84	2
1219	SHREW LAKE	4934	8433	4JC04	MCEWING	34	62.4	.	84	2
1220	SIDEBURNED LAKE	4745	8330	4LE02	CAVERLEY	31	1155.4	.	78	6
1221	SIDER LAKE (NL)	4937	8435	4JC04	ARNOTT	34	21.9	.	84	2
1222	SILVER QUEEN LAKE	4914	8108	4MC01	LEITCH	32	132.8	.	80	7
1223	SINGED TREE LAKE	4812	8219	4LC02	MUSKEGO	31	90.6	.	82	7
1224	SIROLA LAKE	4754	8103	4LA03	MIDLOTHIAN	36	27.2	.	84	2
1225	SISSENEY LAKE	4752	8040	2JD07	YARROW	36	366.1	.	81	8
1226	SKELETONPUP LAKE	4752	7941	2JC04	BAYLY	36	11.3	.	81	7
1227	SLAB LAKE	4833	8052	4MB02	GERMAN	38	2.8	.	79	8
1228	SLATE ROCK LAKE	4811	8221	4LC02	MUSKEGO	31	163.4	.	82	7
1229	SLIM LAKE	4934	8441	4JC04	MCEWING	34	95.6	.	84	2
1230	SLOAN LAKE	4812	8233	4LC06	FOLEYET	31	.	.	80	5
1231	SMITH LAKE	4954	8200	4LG15	HOWELLS	35	30.7	.	84	1
1232	SOOTHERAN LAKE	4746	8321	4LE05	GALLAGHER	31	2.6	.	84	2
1233	SOTHMAN LAKE	4754	8116	4LA03	SOTHMAN	33	117.8	.	84	2
1234	SOUCIE LAKE	4934	8002	4NB01	HOBLITZELL	32	.	.	80	8
1235	SOUTER LAKE (NL)	4935	8436	4JC04	ARNOTT	34	1.6	.	84	2
1236	SOUTH FLOODWOOD LAKE	4922	8019	4ME17	BRAGG	32	228.6	.	80	8

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1212	7	7.850	1670.0	128.0	.	.	.	.	.	.	.	.	.	.	.
1213	19	8.080	3228.0	312.0	2.0	.	1.3	43.5	12.20	1.05	1.64	5.00	0.005	0.003	.
1214	20	7.050	222.0	62.0	.	.	.	.	.	.	.	.	.	.	.
1215	11	7.750	1450.0	116.0	.	.	.	.	.	.	.	.	.	.	.
1216	14	7.750	1350.0	122.0	.	.	.	.	.	.	.	.	.	.	.
1217	19	7.400	486.0	91.0	.	.	.	.	.	.	.	.	.	.	.
1218	14	8.410	2516.0	238.0	6.0	.	3.3	36.6	6.90	0.55	0.24	1.38	0.006	0.003	.
1219	18	8.000	2992.0	290.0	1.0	.	1.4	38.8	9.80	1.20	1.16	4.26	0.002	0.003	.
1220	.	7.700	638.0	.	.	.	.	.	.	.	.	.	.	.	.
1221	15	8.260	2360.0	227.0	3.5	.	2.5	31.0	8.40	0.80	1.08	1.40	0.004	0.004	.
1222	28	7.720	1256.0	128.0	.	.	.	.	.	.	.	.	.	.	.
1223	1	6.994	867.0	104.0	69.0	.	.	14.5	3.32	.	.	4.80	0.024	0.140	.
1224	1	7.675	478.2	74.1	28.1	.	7.9	10.4	1.90	0.75	0.24	8.68	0.014	0.003	.
1225	18	7.000	196.0	52.0	.	.	.	.	.	.	.	.	.	.	.
1226	27	7.220	386.0	74.0	.	.	.	.	.	.	.	.	.	.	.
1227	.	6.200	10.6	14.0	.	.	.	.	.	.	.	.	.	.	.
1228	1	7.417	897.8	105.0	64.1	.	.	14.8	3.52	.	.	4.60	0.033	0.042	.
1229	19	8.140	2538.0	251.0	1.5	.	2.0	36.1	8.66	0.80	1.18	5.03	0.000	0.003	.
1230	16	7.650	916.0	82.0	.	.	.	.	.	.	.	.	.	.	.
1231	26	7.686	450.0	55.1	16.0	.	4.9	7.9	1.50	0.35	0.24	2.69	0.009	0.002	.
1232	10	6.787	133.4	31.2	46.5	.	7.7	3.1	0.80	0.55	0.46	4.53	.	.	.
1233	6	8.278	1845.0	204.0	7.0	.	3.6	30.3	5.36	0.95	0.46	5.99	0.003	0.005	.
1234	22	7.410	350.0	32.0	.	.	.	.	.	.	.	.	.	.	.
1235	15	7.920	1412.0	144.0	3.5	.	3.4	22.7	3.12	1.05	0.58	.	0.002	0.000	.
1236	19	7.800	716.0	41.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1237	SOUTH LAKE	4927	8436	4JC03	MCEWING	34	84.2	.	84	2
1238	SOUTH TOWER LAKE	4921	8210	4LD01	FAUQUIER	35	14.4	.	84	1
1239	SOUTHBEAR LAKE	4731	8033	2JD05	CORKILL	36	69.8	.	80	6
1240	SPARROW LAKE	4958	8409	4JB03	238	34	1.5	.	84	2
1241	SPRING LAKE (NL)	4818	8227	4LC06	FOLEYET	31	2.9	.	80	5
1242	SPRING LAKE (NL)	4924	8044	4ME16	POTTER	32	2.4	.	80	8
1243	SPRING LAKE (NL)	4835	8053	4MD01	GERMAN	38	2.6	.	79	8
1244	SPURLINE LAKE	4912	8447	4JC01	WICKSTEED	34	12.8	.	84	2
1245	ST. AMAND LAKE	4942	8246	4LL01	BURRITT	35	86.8	.	84	1
1246	ST. ANTHONY LAKE	4758	7943	2JC04	SKEAD	36	489.2	.	82	7
1247	ST. JOSEPH LAKE	4948	8402	4JB01	STODDART	34	307.8	.	84	2
1248	ST. LOUIS LAKE	4739	8148	4LA05	ST. LOUIS	33	79.8	.	84	2
1249	STACKPOOL LAKE	4753	8156	4LA10	WIGLE	33	36.9	.	84	2
1250	STARLING LAKE	4935	8436	4JC04	ARNOTT	34	20.7	.	84	2
1251	STE. THERESE LAKE	4948	8339	4LK06	CASGRAIN	34	77.0	.	84	2
1252	STETHAM LAKE (UPPER)	4750	8136	4LA05	MATTAGAMI&STETH	33	135.9	.	84	2
1253	STODDART LAKE	4948	8358	4LK06	STODDART	34	148.6	2613.4	82	5
1254	STONE LAKE	4817	8326	4LH03	BUSBY	31	31.1	.	80	5
1255	STRANGE LAKE	4754	8101	4LA03	MIDLOTHIAN	36	9.7	.	84	2
1256	STRAY LAKE	4922	8331	4LJ01	ORKNEY	34	55.2	.	84	2
1257	STRINGER LAKE	5011	8053	4MF08	UNORGANIZED	32	584.7	.	80	8
1258	STUMPY LAKE	4735	8045	2JD07	NICOL	36	396.3	.	80	6
1259	SULTAN LAKE	4736	8243	4LC04	BLAMEY	31	9.7	.	84	2
1260	SUSIE LAKE	4934	8442	4JC04	FROST	34	17.8	.	84	2
1261	SUZANNE LAKE (NL)	4737	8152	4LA10	NEVILLE	33	10.1	.	84	2

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1237	18	7.950	2968.0	291.0	35.5	.	7.7	43.5	8.30	0.95	0.66	4.39	0.010	0.020	.
1238	27	.	19999.8	370.0	37.3	.	7.9	49.7	12.10	6.55	1.42	5.67	0.006	0.012	.
1239	14	6.650	218.0	50.0	.	.	.	.	.	.	.	.	.	.	.
1240	12	7.770	1130.0	108.1	54.5	.	7.7	15.0	2.96	0.25	0.88	0.00	0.003	0.150	.
1241	15	7.650	2408.0	213.0	.	.	.	.	.	.	.	.	.	.	.
1242	13	8.400	2714.0	.	.	.	.	.	.	.	.	.	.	.	.
1243	.	6.040	11.0	13.0	.	.	.	.	.	.	.	.	.	.	.
1244	17	7.710	2550.0	260.0	49.0	.	10.1	39.4	7.66	0.85	0.86	5.99	0.004	0.006	.
1245	27	7.917	773.6	84.3	7.1	.	8.1	11.5	2.50	0.45	0.36	2.12	0.009	0.019	.
1246	13	7.374	351.4	.	13.3	.	.	7.0	1.88	.	.	9.30	0.036	0.009	.
1247	14	8.180	1650.0	182.0	76.0	.	15.7	24.7	6.28	3.00	0.32	2.06	0.031	0.080	.
1248	7	6.804	96.8	59.9	75.5	.	10.4	4.3	1.22	4.20	0.32	6.47	0.120	0.009	.
1249	6	7.215	232.0	46.5	52.7	.	8.6	5.5	1.42	0.70	0.36	6.97	0.063	0.002	.
1250	15	7.810	766.0	76.5	2.5	.	1.9	10.5	2.46	.	0.28	1.71	0.009	0.000	.
1251	11	.	2197.2	218.0	147.1	.	19.5	32.1	7.76	1.55	0.56	2.64	0.062	0.067	.
1252	2	7.644	494.0	136.0	33.4	.	7.5	10.5	2.90	9.75	0.46	7.95	0.011	0.002	.
1253	27	8.178	1499.6	150.0	40.9	.	.	22.1	5.27	.	.	2.50	.	.	.
1254	19	7.400	530.0	85.0	.	.	.	.	.	.	.	.	.	.	.
1255	1	8.205	1214.0	154.0	.	.	4.8	21.9	4.22	0.80	0.22	16.25	0.005	0.003	.
1256	15	8.070	1842.0	183.0	49.0	.	12.1	28.8	6.52	1.20	0.62	3.48	0.023	0.003	.
1257	23	7.980	908.0	96.0	.	.	.	.	.	.	.	.	.	.	.
1258	14	6.400	100.0	47.0	.	.	.	.	.	.	.	.	.	.	.
1259	9	8.036	1477.4	164.0	-1.5	.	1.2	23.7	3.66	1.20	0.64	9.75	0.000	0.000	.
1260	19	7.680	2154.0	208.0	3.5	.	3.4	31.2	6.16	0.75	0.68	1.58	0.000	0.006	.
1261	7	7.334	297.6	87.4	5.2	.	3.7	7.4	1.80	4.55	0.34	3.05	0.005	0.003	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH
1262	SHALLOW LAKE	4955	8408	4JB03	ROGERS	34	4.1	.	84	2
1263	SWAN LAKE	4951	8411	4JC06	ROGERS	34	6.2	.	84	2
1264	SWAN LAKE	4814	8016	4MB07	MAISONVILLE	36	136.1	.	78	10
1265	SWANSON LAKE	4919	8221	4LF01	SWANSON	35	40.1	.	80	7
1266	TAHILL LAKE	4741	8152	4LA10	SOMME	33	14.8	.	84	2
1267	TASSIE LAKE	4723	8221	2C	HALL	31	.	.	82	7
1268	TATACHIKAPIKA LAKE	4752	8142	4LA04	HAZEN	33	781.1	.	78	10
1269	TELLURIDE LAKE	4804	8122	4LA02	BEEMER	38	70.3	.	84	1
1270	THOM LAKE	4902	8255	4LF01	OSCAR	35	77.4	.	84	1
1271	THORNING LAKE	4926	8055	4HE15	THORNING	32	205.0	.	80	8
1272	THREE DUCK LAKE (UPPER)	4732	8154	4LA08	CHESTER	33	85.5	.	84	2
1273	THREECORNER LAKE	4725	8145	2CE10	VROOMAN	33	.	.	80	6
1274	TONY LAKE	4737	8303	4LC06	DE GAULLE	31	272.7	.	80	5
1275	TORRANCE LAKE	4943	8205	4LF01	TORRANCE	35	366.2	.	80	6
1276	TRAP LAKE (NL)	4745	8322	4LE02	CHAPPISE	31	9.6	.	84	2
1277	TRODD LAKE	4936	8440	4JC04	ARNOTT	34	27.5	.	84	2
1278	TROLLOPE LAKE	4835	7941	4MA01	FRENCHVILLE	36	219.1	.	82	7
1279	TROUT LAKE (NL)	4952	8130	4ME12	PINARD	32	3.6	.	80	4
1280	UPPER CHESTERFIELD LAKE	4810	8128	4LA01	DOYLE	38	41.7	.	84	1
1281	UPPER GRASSY LAKE	4746	8113	4LA03	KEMP	33	130.3	.	84	2
1282	UPPER KENETOGAMI LAKE	4749	8139	4LA05	STETHAM	33	88.1	.	84	2
1283	UPPER MICHEGAMA LAKE	4807	8130	4LA03	DOYLE & HASSARD	38	80.6	.	84	1
1284	UPPER PICHOGEN LAKE	4852	8404	4LJ04	IRVING	34	99.4	.	84	2
1285	VALENTINE LAKE	4943	8403	4LK06	STODDART	34	63.8	.	84	2
1286	VERNA LAKE	4817	7945	2JC07	BEN NEVIS	36	87.5	.	82	7

OBS	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1262	14	7.840	890.0	89.8	34.0	.	8.8	11.7	3.42	0.45	0.58	1.53	0.014	0.006	.
1263	14	8.190	1452.0	142.0	14.0	.	7.9	19.6	4.40	0.40	0.60	1.02	0.010	0.067	.
1264	.	7.350	619.0	.	.	.	.	.	.	.	.	.	.	.	.
1265	2	6.700	476.0	69.0	.	.	.	.	.	.	.	.	.	.	.
1266	7	7.099	151.6	37.8	13.5	.	4.2	3.4	1.10	0.85	0.28	6.90	0.012	0.000	.
1267	26	7.144	368.4	57.0	.	.	.	7.8	1.86	.	.	4.90	0.120	.	.
1268	.	6.800	264.0	.	.	.	.	.	.	.	.	.	.	.	.
1269	31	7.458	380.2	60.4	54.0	.	8.7	8.4	1.80	0.55	0.30	6.43	0.039	0.003	.
1270	29	7.796	1132.2	124.6	91.8	.	16.2	17.9	4.42	0.75	0.72	3.19	0.019	0.015	.
1271	21	7.660	618.0	42.0	.	.	.	.	.	.	.	.	.	.	.
1272	2	7.265	282.6	50.8	92.2	.	12.4	7.3	1.18	0.75	0.32	5.74	0.071	0.022	.
1273	2	6.400	134.0	43.0	.	.	.	.	.	.	.	.	.	.	.
1274	13	7.700	1496.0	114.0	.	.	.	.	.	.	.	.	.	.	.
1275	30	6.750	376.0	58.0	.	.	.	.	.	.	.	.	.	.	.
1276	10	8.252	2744.2	265.0	5.2	.	1.8	41.7	5.48	1.20	1.88	4.73	.	.	.
1277	19	8.150	2482.0	239.0	2.0	.	1.7	33.0	8.40	0.90	1.12	2.70	0.000	0.003	.
1278	13	7.267	293.2	.	7.9	.	.	6.4	0.86	.	.	6.00	0.018	0.016	.
1279	12	6.450	432.0	61.0	.	.	.	.	.	.	.	.	.	.	.
1280	31	8.180	1739.6	181.0	52.8	.	9.1	27.6	4.70	0.85	0.36	5.77	0.024	0.088	.
1281	6	7.875	942.4	107.4	55.5	.	9.7	15.2	3.10	0.80	0.22	5.65	0.022	0.013	.
1282	2	6.950	102.8	30.3	17.0	.	5.2	3.0	0.70	0.75	0.18	5.57	0.024	0.003	.
1283	31	7.431	455.2	63.5	78.6	.	10.5	8.8	1.98	0.65	0.36	5.36	0.037	0.009	.
1284	16	7.810	1812.0	186.0	52.5	.	10.9	26.5	7.46	0.60	0.38	3.68	0.008	0.004	.
1285	14	8.020	1362.0	138.0	63.0	.	15.0	18.5	5.32	0.95	0.40	2.31	0.071	0.008	.
1286	13	7.430	421.6	.	51.5	.	.	8.5	1.82	.	.	8.10	0.094	0.027	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH	DAY
1287	VEZINA LAKE	4729	8322	2CB02	WHITEHEAD	31	226.9	.	80	8	13
1288	VICE LAKE	4748	8252	4LC05	HALCROW	31	70.3	.	84	2	9
1289	VIOLIN LAKE	4950	8409	4JA01	STUDHOLME	34	38.5	.	84	2	14
1290	VISON LAKE	4914	8501	4JC11	LESSARD	34	79.2	.	84	2	16
1291	WABICOCK LAKE	4914	8223	4LF04	SWANSON	35	8.8	.	84	1	27
1292	WADE LAKE	4902	8035	4MC03	STIMSON	32	71.1	.	80	4	14
1293	WAKAGAMI LAKE	4813	8237	4LC08	LEMOINE	31	.	.	80	5	16
1294	WAKAMI LAKE	4729	8251	4LC04	KELSEY	31	1713.0	.	80	5	13
1295	WAKWAYOWKASTIC LAKE	4936	8019	4MF06	UNORGANIZED	32	221.3	.	80	8	19
1296	WALLINGFORD LAKE	4823	8144	4LA04	WHITESIDE	38	16.8	.	84	2	4
1297	WALROTH LAKE (NL)	4726	8127	4LA06	GARIBALDI	33	6.5	.	84	2	7
1298	WAMATANGUA LAKE	4738	8127	4LA01	CONNAUGHT	33	12.2	.	84	2	7
1299	WANGOON LAKE	4750	8334	4LE01	CAOUETTE	31	449.7	.	78	6	.
1300	WAONGA LAKE	4736	8127	4LA06		33	225.4	.	81	6	17
1301	WATABEAG LAKE	4814	8033	4MB04	NORDICA	36	2166.6	23110.8	80	6	17
1302	WATERHEN LAKE	4813	7934	4MA05	OSSIAN	36	.	.	81	8	6
1303	WATERSNAKE LAKE	4916	8201	4LD02	SHACKLETON	35	98.0	.	84	1	29
1304	WEARY LAKE	4754	8102	4LA03	MIDLOTHIAN	36	30.8	.	84	2	1
1305	WEE LAKE (NL)	4758	8156	4LA10	REGAN	33	5.3	.	84	2	6
1306	WEEDUCK LAKE	4734	8155	4LA08	CHESTER	33	.	.	80	6	2
1307	WENDIGO LAKE	4752	7943	2JC04	BAYLY	36	419.6	.	80	6	12
1308	WEST COMMANDO LAKE	4815	8135	4LB09	ROBB	38	4.6	.	84	2	4
1309	WEST LARKIN LAKE	4905	8446	4JC01	LARKIN	34	140.1	.	84	2	17
1310	WESTON LAKE	4815	8157	4LC01	SEWELL	38	63.6	.	84	2	4
1311	WHIGHAM LAKE	4800	8231	4LC06	WHIGHAM	31	63.0	.	84	2	9

OBS	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1287	7.250	686.0	95.0	.	.	.	.	.	.	.	.	.	.	.
1288	7.862	1169.8	128.3	59.1	.	10.8	17.7	4.34	0.80	0.44	5.28	0.006	0.005	.
1289	8.190	1432.0	142.0	9.5	.	4.8	18.7	4.88	0.50	0.52	1.82	0.002	0.005	.
1290	7.550	1640.0	168.0	62.5	.	12.7	25.1	5.94	0.55	0.58	3.72	0.020	0.008	.
1291	7.775	1000.8	114.1	208.7	.	31.0	17.4	4.22	1.40	0.42	3.60	.	0.040	.
1292	6.200	484.0	56.0	.	.	.	.	.	.	.	.	.	.	.
1293	7.450	746.0	54.0	.	.	.	.	.	.	.	.	.	.	.
1294	7.300	476.0	80.0	.	.	.	.	.	.	.	.	.	.	.
1295	7.030	440.0	33.0	.	.	.	.	.	.	.	.	.	.	.
1296	7.781	801.2	98.9	16.9	.	8.8	13.4	2.88	0.75	0.24	6.08	0.019	0.004	.
1297	5.326	19999.8	16.2	7.3	.	2.2	1.0	0.28	0.00	0.20	4.20	0.030	0.032	.
1298	8.127	1754.4	183.0	4.6	.	1.5	26.2	5.08	1.00	0.38	7.09	0.005	0.000	.
1299	7.750	582.0	.	.	.	.	.	.	.	.	.	.	.	.
1300	8.040	1354.0	141.0	0.0	.	3.8	18.2	5.00	0.70	0.35	5.50	0.210	0.004	0.01
1301	7.550	1134.0	114.0	.	.	.	.	.	.	.	.	.	.	.
1302	7.750	582.0	87.0	.	.	.	.	.	.	.	.	.	.	.
1303	9.918	1325.0	142.0	82.3	.	15.2	19.8	4.66	1.55	0.56	3.54	0.035	0.015	.
1304	7.736	571.2	83 3	34.0	.	8.0	12.3	1.98	0.70	0.26	8.82	0.016	0.000	.
1305	8.138	1461.0	158.0	2.7	.	3.7	22.8	3.84	0.80	0.50	7.58	0.007	0.009	.
1306	6.850	228.0	52.0	.	.	.	.	.	.	.	.	.	.	.
1307	6.750	368.0	107.0	.	.	.	.	.	.	.	.	.	.	.
1308	5.424	5.8	16.4	89.7	.	9.9	1.5	0.34	0.00	0.22	2.67	0.058	0.015	.
1309	7.760	1952.0	201.0	14.5	.	7.4	28.8	5.90	1.00	0.32	3.74	0.004	0.002	.
1310	8.092	1470.2	168.0	27.2	.	8.8	22.9	4.10	2.55	0.54	5.29	0.007	0.022	.
1311	8.031	1480.2	153.0	11.1	.	3.9	22.5	3.80	1.00	0.46	4.71	0.003	0.003	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDA	YR	MONTH	DAY
1312	WHITE BARK LAKE	4734	8314	2BE10	REANEY	31	13.5	.	79	8	.
1313	WHITE DUCK LAKE	4812	8217	4L	MUSKEGO	31	.	.	82	6	29
1314	WHITE OWL LAKE	4710	8235	2CB01		31	1081.0	.	81	8	5
1315	WHITE OWL LAKE	4902	8501	4JC02	BAYFIELD	34	339.0	.	84	2	17
1316	WHITE RAT LAKE	4720	8312	2CB02	BIRCH	31	.	.	80	8	13
1317	WHITEFISH LAKE	4809	8049	4ND06	ROBERTSON	36	218.7	.	82	7	13
1318	WHITESIDE LAKE	4823	8147	4LB09	WHITESIDE	38	34.4	.	84	2	4
1319	WHOPPER LAKE	4749	8153	4LA10	WHALEN	33	7.3	.	84	2	6
1320	WICKSTEED LAKE	4919	8447	4JC01	WICKSTEED	34	215.5	.	84	2	16
1321	WIDGEON LAKE	5000	8410	4JB01		34	18.6	.	84	2	12
1322	WIENER LAKE (NL)	4741	8325	4LE04	CHAPPISE	31	4.2	.	84	2	10
1323	WIGWAM LAKE	4917	8404	4KL09	TALBOTT	34	134.9	.	80	7	11
1324	WILHOT LAKE	4948	8407	4JA01	STUDHOLME	34	35.8	.	84	2	14
1325	WINDY LAKE	4733	8205	4LC03	ARBUTUS & YEO	33	71.5	.	84	2	2
1326	WINE LAKE	4749	8152	4LA10	WHALEN	33	6.7	.	84	2	6
1327	WINTER LAKE	4835	8143	4LB09	ROBB	38	28.9	.	84	2	4
1328	WIZARD LAKE (DEVIL)	4744	8146	4LA09	JACK	33	131.5	.	84	2	7
1329	WOLF LAKE	4738	8159	4LA10	POTIER	33	104.7	.	84	2	7
1330	WOOD LAKE	4755	8102	4LA03	MIDLOTHIAN	36	15.0	.	84	2	1
1331	WOODCOCK LAKE (NL)	5001	8405	4JB03		34	8.1	.	84	2	12
1332	WREN LAKE (NL)	5004	8409	4JB03		34	5.2	.	84	2	12
1333	WRONG LAKE	4821	8322	4LH03	LLOYD	31	.	.	80	5	19
1334	WYE LAKE (NL)	4812	8325	4LE09	BRUTUS	31	32.4	.	84	2	8
1335	YEO LAKE	4734	8204	4LC03	YEO	33	94.4	.	84	2	2
1336	YESTERDAY LAKE	4950	8043	4MF07	UNORGANIZED	32	145.9	.	80	8	23

OBS	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1312	6.090	21.6	16.0	.	.	.	.	.	.	.	.	.	.	.
1313	7.364	508.4	74.0	73.1	.	.	9.3	2.44	.	.	4.60	0.043	0.031	.
1314	6.900	223.6	45.0	17.5	.	4.7	4.8	1.30	0.90	0.30	8.00	0.025	0.062	0.07
1315	7.700	1698.0	169.0	34.5	.	9.4	24.7	5.56	0.65	0.40	2.63	0.004	0.000	.
1316	6.450	326.0	73.0	.	.	.	.	.	.	.	.	.	.	.
1317	7.435	549.8	.	58.8	.	.	10.1	1.92	.	.	6.30	0.045	0.021	.
1318	8.020	1207.2	135.0	30.9	.	9.2	19.4	3.60	0.85	0.42	5.36	0.011	0.026	.
1319	7.692	616.0	82.5	-1.0	.	3.0	10.7	1.98	0.85	0.42	7.42	0.003	0.002	.
1320	7.570	1882.0	194.0	23.5	.	8.6	27.8	6.76	0.65	1.06	5.07	0.004	0.068	.
1321	8.630	3480.0	334.0	1.6	.	2.0	42.1	14.40	1.80	1.32	8.62	0.008	0.004	.
1322	7.572	1012.8	114.1	11.8	.	3.9	16.6	2.24	0.75	1.40	5.49	.	.	.
1323	7.000	342.0	47.0	.	.	.	.	.	.	.	.	.	.	.
1324	8.190	1624.0	192.0	116.0	.	36.0	23.0	6.58	6.05	2.46	2.45	0.025	0.088	.
1325	7.609	407.6	61.8	63.0	.	10.3	9.4	1.08	0.70	0.30	5.72	0.054	0.017	.
1326	7.252	222.6	49.8	43.1	.	7.3	5.4	1.44	1.00	0.24	8.56	0.110	0.004	.
1327	8.124	1526.4	153.0	11.8	.	3.6	21.4	4.62	0.50	0.44	2.98	0.005	0.008	.
1328	7.121	210.0	55.6	163.0	.	12.8	5.7	1.56	1.75	0.30	7.09	0.120	0.006	.
1329	7.383	303.2	52.2	58.8	.	9.5	6.1	1.64	0.80	0.30	5.41	0.062	0.019	.
1330	7.382	504.0	77.0	56.2	.	9.2	10.4	2.38	0.75	0.24	8.01	0.033	0.034	.
1331	7.346	1474.2	151.0	191.2	.	25.5	22.6	5.56	1.25	0.56	1.50	0.044	0.054	.
1332	8.364	5850.8	529.0	4.7	.	2.0	70.6	19.20	2.40	1.18	10.28	0.005	0.018	.
1333	7.150	708.0	97.0	.	.	.	.	.	.	.	.	.	.	.
1334	7.938	1550.6	161.0	66.7	.	11.6	24.0	4.34	0.85	0.60	3.43	0.027	0.062	.
1335	7.525	358.8	57.5	47.4	.	9.8	8.4	1.18	0.70	0.34	4.82	0.045	0.036	.
1336	7.680	1348.0	147.0	.	.	.	.	.	.	.	.	.	.	.

OBS	LAKE	LAT	LONG	WSHED	TWP	DIST	LKAREA	WSHEDAR	MONTH	DAY	PH	TIA	COND	COLAP	COLTR	DOC	CA	MG	NA	K	SO4	AL	MN	FE
1337	YOHO LAKE (NL)	4809	8318	4LE06	FLORANNA	31	22.1	.	84	2	8	7.909	1049.4	114.7	37.1	.	7.8	16.0	3.36	0.75	0.72	3.77	0.007	0.010	.
1338	YOUNG LAKE	4936	8440	4JC04	ARNOTT	34	27.5	.	84	2	19	7.940	2574.0	252.0	3.5	.	2.2	33.3	9.40	0.95	1.18	4.96	0.007	0.003	.

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